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		[C]	🛛 Applica	tion is One	Which Rec	quires Publ	ished Legal	Notice	
		[D]	Votifica	ition and/or Bureau of Land M	Concurren	t Approval	by BLM of blic Lands, State I	r SLO Land Office	
		[E]	G For all o	of the above	e, Proof of l	Notification	n or Publica	tion is Attac	hed, and/or,

U Waivers are Attached **[F]**

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

BRIAN WOOD

Note: Statement must be completed by an individual with supervisory capacity. 100

CONSULTANT

<u>/2-3/-96</u> Date

Print or Type Name

Signature

Title

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APPLICATION FOR AUTHORIZATION TO INJECT

			<u>APP1</u>	LICATION	FOR	AUTHOR	ZATION	<u>TO INJE</u>	<u>scr</u> u	AN 13		
I.	PURPOSE: Application qu	Se alifies for	condary adminis	Recovery trative app	oroval?	Pre XXYes	ssure Main No	tenance		sposal	Stor	age
II.	OPERATOR:	U. S.	ENE	RCORP,	LLC					····		
	ADDRESS:	1777	N.E.	LOOP	410,	SUITE	1512,	SAN	ANTONIO	, TX.	78217	
	CONTACT PA	RTY: BF	RIAN	WOOD	c/o	PERMIT	S WES	T, INC	2.	PHONE	505 466-	B120
III.	WELL DATA:	Complet sheets m	e the dat ay be at	a required tached if n	on the r	everse side	of this fo rn	n for each	n well process	ed for inje	ction. Addition	onal

	 . .		XXX 🚬
IV.	Is this an expansion of an existing project:	Yes	No
	If yes, give the Division order number author	rizing the	project

- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. VI. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
 - 1. Proposed average and maximum daily rate and volume of fluids to be injected;
 - 2. Whether the system is open or closed;
 - 3. Proposed average and maximum injection pressure;
 - 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 - 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/1 or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
 - IX. Describe the proposed stimulation program, if any.
- Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be Χ. resubmitted.)
- Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile XI. of any injection or disposal well showing location of wells and dates samples were taken.
- Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering XII. data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- Certification: I hereby certify that the information submitted with this application is true and correct to the best of my XIV. knowledge and belief. OON CULL TANT

NAME:	BRIAN WOOD	TITLE:	CONSULIANI
SIGNATURE:	I min colored	DATE:	12-31-96
-			

If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be IN OCD FILES resubmitted. Please show the date and circumstance of the earlier submittal.

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township, and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.
 - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, PO Box 2088, Santa Fe, NM 87504-2088 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

U. S. Enercorp, LLC Chijuilla 34 #14 660' FSL & 1980' FWL Sec. 34, T. 21 N., R. 2 W. Sandoval County, New Mexico PAGE 1

I. Purpose is water disposal.

II. Operator is: U. S. Enercorp, LLC Phone is: (210) 829-4888
Address is: 1777 NE Loop 410, Suite 1512, San Antonio, Tx. 78217 Contact is: Brian Wood (Permits West, Inc.). Phone is (505) 466-8120.

III. A. (1) Lease is 400 acre BLM oil and gas lease NM-44551, which comprises all of the S2NW4 and S2 of Section 34, T. 21 N., R. 2 W. Well name and number is Chijulla 34 #14. Well is located at 660' FSL and 1980' FWL Sec. 34, T. 21 N., R. 2 W.
A. (2) Surface casing (9-5/8", 36#, J-55) was set at 224' in a 13-

A. (2) surface casing (5-576, 36#, 5-53) was set at 224 in a 13-3/4" hole and cemented to the surface (visually observed) with 150 sx (177 cu ft) Class B. Intermediate string (7", 23#, J-55) was set at 3798' in a 8-3/4" hole and cemented to surface (visually observed) with 250 sx (595 cu ft) Class A and 150 sx (175 cu ft) Class B. Liner (4-1/2", 10.5#, J-55) was set from 3618' to 4907' in a 6-1/4" hole and cemented to 3618' (checked by log) with 88 sx (235 cu ft) Class B. A. (3) Tubing will be the 2-3/8" 6.5# unlined injection string which is already in the well. It will be set at 4,145' (disposal interval is 586' interval from 4,182' to 4,768'). It is anticipated this tubing string will be replaced by a fiberglass string in 1 to 2 years.

A. (4) Model TSN retrievable packer from Baker will be set at 4,145'.

B. (1) Disposal zone will be Gallup sandstone.

B. (2) Disposal interval will be 4,182' - 4,768'. It was perforated (0.39") with one shot per foot at 4182', 4200', 4252', 4278', 4310', 4315', 4324', 4340', 4356', 4406', 4504', 4586' 4590', 4768' in 1986. B. (3) Well was spudded in November, 1985 and completed in January, 1986 as an oil well in the Rio Puerco Mancos field and pool.

B. (4) Gallup sandstone was perforated (0.39") with one shot per foot



PAGE 2

U. S. Enercorp, LLC Chijuilla 34 #14 660' FSL & 1980' FWL Sec. 34, T. 21 N., R. 2 W. Sandoval County, New Mexico

at 4182', 4200', 4252', 4278', 4310', 4315', 4324', 4340', 4356', 4406', 4504', 4586' 4590', 4768' for a total of 14 perforations. B. (5) Top of Gallup sandstone is 4006', which is over a thousand feet below the Menefee, which is the next closest producing interval. The closest well (Gary-Williams' San Isidro 26-7 in SWNE 26-20n-3w) from which the Menefee produced is over 6 miles southwest. Neither the Pt. Lookout (bottom of which at 3241' is 941' above the highest Gallup perforation) nor the Cliff House (bottom of which at 2389' is 1793' above the highest Gallup perforation) produce locally, though they are productive elsewhere in the basin.

IV. This is not an expansion of an existing injection project.

V. A map is attached showing all wells within a half mile (there are none, closest well is the 35-2 which is 4135' east) and within two miles (5 oil + 2 P&A). An arrow points to the Chijulla 34 #14 well. Details on the wells are below, listed from closest to the most distant.

WELL	SURFACE LOCATION	BHL	<u>STATUS</u>
US Enercorp's 35-2	SWSW 35-21n-2w	NWNW 35-21n-2w	Oil Well
US Enercorp's 35-1	SWSW 35-21n-2w	NWSW 35-21n-2w	Oil Well
Gary-Williams' 28-15	SWSE 28-21n-2w	Same	Oil Well
Sam Gary's 4-14	SESW 4-20n-2w	Same	P&A
Gary-Williams' 4-1H	SESW 4-20n-2w	NESW 4-20n-2w	Oil Well
Pride's 5-2	NWNE 5-20n-2w	SESE 32-21n-2w	Oil Well
Mesa's 9-1	SWNE 9-20n-2w	Same	P&A

A map also shows all leases within a half mile (all Federal) and within two miles (all Federal or state). The only state lease is in 2-20n-2w. An arrow marks the Chijulla 34 #14 well. Details on those leases within a half mile are:



U. S. Enercorp, LLC Chijuilla 34 #14 660' FSL & 1980' FWL Sec. 34, T. 21 N., R. 2 W. Sandoval County, New Mexico

AREA	LESSOR	LESSEE	<u>SERIAL #</u>
S2NW4 & S2 Sec. 34	BLM	US Enercorp	NM-44551
NE4 Sec. 34	BLM	N/A	Not currently leased
All Sections 3 & 4	BLM	Gary-Williams	NM-7765
SE4 Sec. 33	BLM	Pride	NM-42171

VI. This is the only well within a half mile. Profile is attached.

VII. 1. Average injection rate = 80 bwpd. Maximum rate = 160 bwpd.
2. System will be open (trucked to well). One 400 bbl fiberglass tank will be installed.

3. Well is expected to take water without injection pressure based on under pressured zone and gravity.

4. Water source will be U. S. Enercorp's 35-1 and 35-2 wells producing from Gallup. An analysis of receiving (34 #14) and injected (34 #14) waters is attached. Water from the Gallup sandstone will be disposed of in the Gallup sandstone. A summary follows:

<u>Drink. Water Stand.</u>	<u>34 #14</u>
6.5-8.5	7.76
500	26,257
-	152
-	48.6
-	9900
-	1079
250	75
250	15,000
0.3	4.1
1.0	0.78
	Drink. Water Stand. 6.5-8.5 500 - - - 250 250 0.3 1.0

5. The Gallup is productive. The 34 #14 well initially produced 82 bopd and 35 Mcfd from the Gallup at its completion in 1986. Cumulative oil production up until it was shut-in in 1992 was \approx 26,000 bbl. Analysis of disposal zone water is attached. Salient



PAGE 4

U. S. Enercorp, LLC Chijuilla 34 #14 660' FSL & 1980' FWL Sec. 34, T. 21 N., R. 2 W. Sandoval County, New Mexico

points are the disposal zone water TDS exceeds drinking water standards by 52 times, chlorides by 60 times, and iron by 13 times. Closest fresh water zones currently are the San Jose and Animas. The Animas is the deeper of the two. Its bottom in the 34 #14 well is at 444', or 3738' above the highest Gallup perforation. Closest known water well is a windmill over 2 miles southwest in NE4 16-20n-2w which taps the Animas.

VIII. The Gallup sandstone consists of marine and nonmarine sandstones. It is fine to medium grained. It lies conformably on the Mancos shale. It is ≈773' thick in the 34 #14 wellbore. Top is 4006' and bottom is ≈4779'. Fracture gradient is 0.70 psi/ft.

Four zones (Pictured Cliffs, Cliff House, Menefee, and Pt. Lookout) above the Gallup are water bearing. Local TDS data from these zones is lacking. Basin wide, specific conductance of the water in these four zones ranges from 1,000 μ mhos near outcrops to 59,000 μ mhos in deeper gas prone areas. The closest aquifer below the Gallup is the Dakota sandstone. Specific conductance in the Dakota ranges from 2,000 μ mhos near recharge areas to 10,000 μ mhos in deep areas.

- IX. No stimulation is planned. Formation will accept fluids from gravity flow. Well was fractured when completed with 79,000 gal foamed diesel and 155,000 pounds of sand.
- X. DIL-GR, CNL-CAL, IES-GR, CDL, and Dual Caliper Temperature logs were run and are on file.
- XI. Based on a June 17, 1996, field inspection and a review of the US Geological Survey and NM State Engineer's records, there are no water



U. S. Enercorp, LLC Chijuilla 34 #14 660' FSL & 1980' FWL Sec. 34, T. 21 N., R. 2 W. Sandoval County, New Mexico

wells within a mile.

- XII. Geologic and engineering data at the NM Oil Conservation Div. and NM Institute of Mining & Technology have been examined. No evidence of open faults or other hydrologic connection between the Gallup and any underground source of water has been found.
- XIII. Notice (this application) has been sent to the surface owner (BLM Albuquerque District) and Pride Energy Company. U. S. Enercorp and Pride Energy Company are the operators of all leases within a half mile.





1. **)**

Side						J				:				1				
ION WELL DATA SHEET	Chijulla 34 (NM-44453) I FASF	660' FSL & 1980' FWL 34-21n-2w	SECTION TOWNSHIP RANGE	Well Construction Data	<u>Surface Casing</u>	Size <u>9-5/8</u> Cemented with 150 (Class B) st	TOC Surface feet determined by Visual	Hole Size 13-3/4 (0 - 224) Intermediate Casing	Size 7" Computed with AOO (Close A.B. Bru		TOC Surface feet determined by VISUAI	Long String	Size <u>4 1 / 2 "</u> Cemented with <u>R</u> (Clace R) Sx	TOC 3,618' feet determined by <u>Log</u>	Hole Size <u>6-1/4</u> " (3,618' - 4,907')	Total Depth 5,008' (PBTD 4,863')	Injection Interval	4,182' feet to 4,768' feet (perforated or open-hole; indicate which)
INJECT	evelopment Corporation	4 #14	FOOTAGE LOCATION	Schematic	& Long Strings is ground level							TOC for Liner	2		Intermed. String	Bottom @ 3,798	PBTD @ 4,838'	Liner Bottom @ 4,907' TD @ 5,008'
	Energy C	Chijulla 3													Disposal	Interval 4,182' Gallup	to 4,768'	

Side

INJECTION WELL DATA SHEET

. .

Tubina	2-3/8"6.5# steel (unlined)	set in a
((type of internal coating) Baker TSN packer at 4,145	feet
Other t	type of tubing / casing seal if applicable N/A	
Other [Data	
, 1	Is this a new well drilled for injection? <u>Yes</u> No	
	If no, for what purpose was the well originally drilled? Drilled & produced br	iefly as
	well. SI in 1992 after 26,000 bbl of oil cumulative pr	oduction
ġ	Name of the injection formation Gallup	
3	Name of Field or Pool (if applicable) Rio Puerco Mancos	

Gallup oil

4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e., sacks of cement or plug(s) used Gallup perf'ed. between 4,182' & 4,768'

at 14 different levels (1 spf, 0.39" holes).

Give the names and depths of any over or underlying oil of gas zones (pools) in this area.

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None (e.g, designated or producing, but oil Pictured Cliffs, Cliffhouse, Lewis, & gas shows have been found Menefee, Mancos) and below (Tocito above

& Juana Lopez) within a mile radius.

ISN Tension Set Neutral

A Versatile Packer for CO₂ and Water Injection

The Baker "TSN" Retrievable Packer and its companion tools provide flexibility, performance and dependability in designing your CO₂ and water injection programs.

As its name implies, the "TSN" is a versatile packer that once set allows tubing to be landed in tension, compression or neutral. It holds pressures from above and below, and can be reset while in the hole.

Here are the features that make the "TSN" your ideal injection packer system:

Simple. The packer has a minimum of moving parts and because the packing element is located at the bottom, only four parts are exposed to injection fluids.

Economical. The TSN, because of its simplicity, is easy to maintain. It was designed to cut expensive repair costs by keeping all of the operating parts isolated from the corrosive environment of the well bore.

Easy to Set. The "TSN" is a tension-set packer. At setting depth, a simple ¼ turn left starts the setting action. Upstrain, slack-off and upstrain once again ensures a good pack-off. Tubing may now be landed in tension, compression or neutral.

Easy to Release. The "TSN" is released simply by pulling the tubing string and shearing the shear screws. Annular pressure **does not** place a load on the shear screws because the "TSN" design allows the loads to be carried into the casing through the slips. This feature ensures that the shear value can always be within the requirements of the tubing size, grade and depth without reducing the packer ratings.

The packer may also be moved up or down the hole and reset, without coming out of the hole, by releasing it rotationally (3-5 right hand turns).

Versatile. The "TSN" companion tools include the Model "B" Two-Way Downhole Shut-Off Valve for shut-in at packer depth, and the "FL" On-Off Sealing Connector which allows disconnect and retrieval of tubing above the packer.



UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O.BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : GARY WILLIAMS OIL PRODUCER DATE : 11-25-86 FIELD,LEASE&WELL : RIO PUERCO-MESA VERDE SAMPLING POINT: CHIJUILLA; 34-14; WATER TANK DATE SAMPLED : 11-18-86

SPECIFIC GRAVITY = 1.016 TOTAL DISSOLVED SOLIDS = 26257 PH = 7.76

CALCIUM SULFATE SCALING

1

			ME/L	MG/L
CATIONS				
CALCIUM MAGNESIUM SODIUM	(CA)+2 (MG)+2 (NA) ,CAL (c.	7.6 4 430.	152. 48.6 9900.
ANIONS				
BICARBONATE CARBONATE HYDROXIDE SULFATE CHLORIDES	(HCO3)-1 (CD3)-2 (OH)-1 (SO4)-2 (CL)-1		17.7 0 0 1.5 423	1079, 0 0 75 13000
DISSOLVED GASE	:S			
CARBON DIOXIDE HYDROGEN SULFIDE OXYGEN	(CO2) (H2S) (O2)		NOT RUN NOT RUN NOT RUN	
IRON(TOTAL) BARIUM MANGANESE	(FE) (BA)+2 (MN)		.01 NOT RUN	4.1
IONIC STRENGTH (MOL	AL) =.454			
SCALI	NG INDEX	TEMP		!
CARBONATE INDEX CALCIUM CARBONATE S	CALING	30C 86F .519 Likely		1
CALCIUM SULFATE IND	EX	-56.		

UNLIKELY

day Bill Tafoya being duly sworn declares and says that he is Classified of Section 3, Chapter 167, Session Laws of 1937, and that payment therefore hereto attached, was published in said paper in the regular daily edition, Advertising manager of The Albuquerque Journal, and that this newspaper is duly qualified to publish legal notices or advertisements within the meaning has been made of assessed as court cost; that the notice, copy of which is 1996, and the subsequent consecutive publications ic in 966万 0 Statement to come at end of month. and for the County of Bernalillo and State of New Sworn and subscribed to befork me, a notary Pub _times, the first publication being of the _ CLA-22-A (R-1/93) ACCOUNT NUMBER C S R day of. 1996 Ø Mexico, this_ PRICE CHERT AL SEAL for G of mum mete of 160 bil wells into th a depth of 4,18 14.00 ctions or mous Journal: November 6, 1996. Fe. NM 87504-2068 w

SS STATE OF NEW MEXICO County of Bernalillo

THE:

surization is plainned. Interested p Gallup formation vation Division. P from surroundi lor hearing with ties must f to 4,768' Phone barrels

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIPT AND ACCOUNTING ADVICE

NO.

Subject of Best for each for the second of the providence of the second s

Applicant:

Martin and States and States
Martin Andrews and States
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Remitter

Assignor

SERIAL NO.	
 03001	

REFER TO THE ABOVE CASE SERIAL NUMBER IN ALL CORRESPONDENCE. PLEASE INFORM THIS OFFICE OF ANY CHANGE IN ADDRESS.

NOTE: This notice is a receipt for monies paid the United States. If these monies are for required fees in connection with your application to lease, purchase, enter, or otherwise acquire an interest in public lands or resources, this receipt is not an authorization to utilize the land applied for and it does not convey any right, title, or interest in the land for which application is made.

 SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, and 4a & b. Print your name and address on the reverse of this form so tha return this card to you. Attach this form to the front of the mailpiece, or on the back i does not permit Write "Return Receipt Requested" on the mailpiece below. the article was delivered a 	1 also wish to receive the iat we can following services (for an extra o o if space 1. [] Addressee's Address o ticle number 2. [] Restricted Delivery to and the date Consult postmaster for fee. o
5 delivered 3. Article Addressed to: 5. John Pricke	4a. Article Number Z 766 607 0.36 4b. Service Type 1 Registered 1 Insured
B Hile Energy 1 / SI PO Box 701602 The Isa Ok. 74170-1602	[] Certified [] COD [] Express Mail [] Return Receipt for [] Express Mail [] Return Receipt for [] T. Date of Delivery [] Merchandise
5. Liighature (Addressee) 5. Liighature (Addressee) 6. Signature (Agent)	8. Addressee's Address (Only if requested and fee is paid)
PS Form 3811, December 1991 + +U.S. GPO: 1992-	-323-402 DOMESTIC RETURN RECEIPT

Box 1980, Ho	bbs, NM 882	41-1980	Energy, Minerals & Natural Resources.Department					t	Form C-104 Revised February 21, 1994				
itrict II) Drawer DD, Artesia, NM 88211-0719			OIL CONSERVATION DIVISION					N	Instructions on back Submit to Appropriate District Office				
strict III 00 Rin Brazos Rd., Aziec, NM \$7419			PO Box 2 Santa Fe NM 8				088 7504-2088			5 Copies			
rict IV		7404 3000		Janua I	c , 1401 07	504	2000				٨ME	NDED REPORT	
Box 2008, Sai	RE	QUEST	FOR A	LLOWAB	LE AND	AU	THORIZ	ATI	ON TO TR	ANSPO	RT		
U.S.	Enerco	rp. LLC	Operator and	(210)	829-48	888			1	54376	iumb)	ft	
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San A	Antonio	, Tx. 78	3217					ļ	C	Н			
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