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STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

## OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

1/3/02 FORM C-108
Revised 4-1-98

SANTA FE, NEW MEXICO 87505

RECEIVED

PPLICATION FOR AUTHORIZATION TO INJECT

	APPLICATION FOR AUTHORIZATION TO INJECT  Surfine or
I.	PURPOSE: Secondary Recovery Application qualifies for administrative approval?  Pressure Maintenance  No No  No  CONSTITUTION
II.	OPERATOR: MARBOB ENERGY CORPORATION  OIL CONSERVATION  DIVISION  1/3
	ADDRESS: P O BOX 227, ARTESIA, NM 88211-0227
	CONTACT PARTY: BRIAN COLLINS PHONE: 505-748-3303
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? Yes X No  If yes, give the Division order number authorizing 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.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. 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:
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>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.).</li> </ol>
*VIII	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic 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/l 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.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME: BRIAN COLLINS TITLE: ENGINEER
	SIGNATURE: DATE: 15 Nov 02
	If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

•	•								- See Attached Sketches -					WELLBORE SCHEMATIC	WELL LOCATION: 750' FNL 660' FNL FOOTAGE LOCATION	WELL NAME & NUMBER: Llang McKay Fed.	OPERATOR: Markob Energy Corp.
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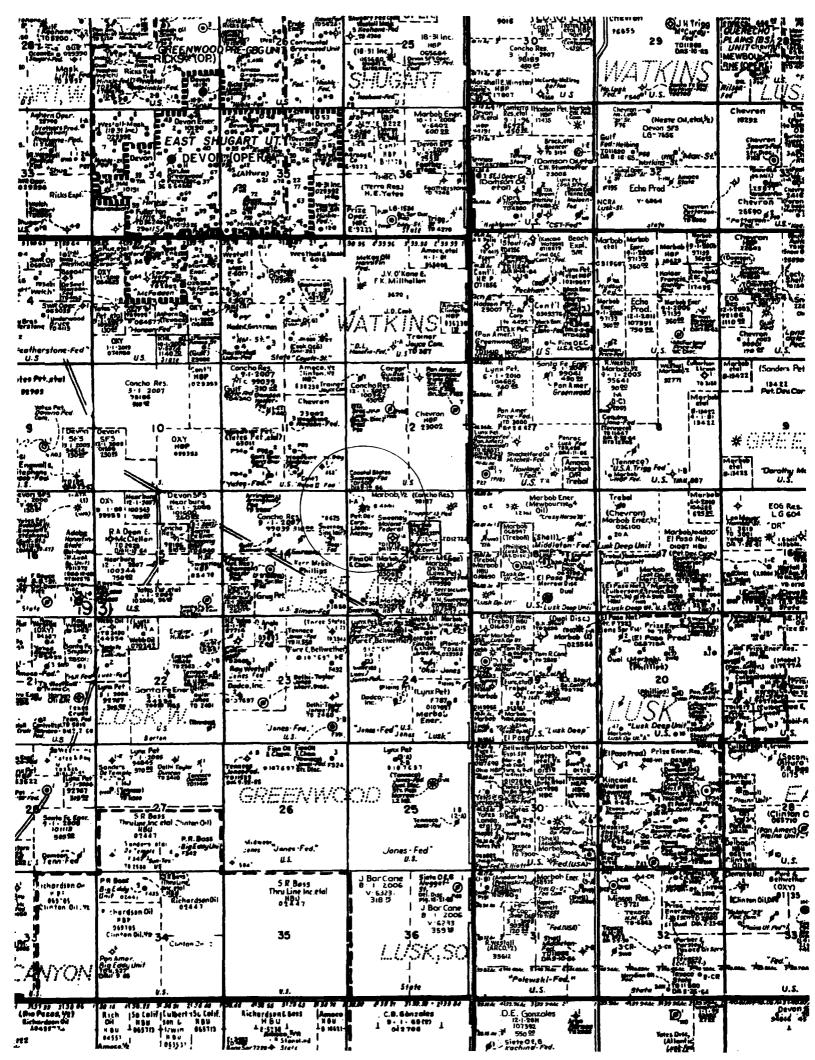
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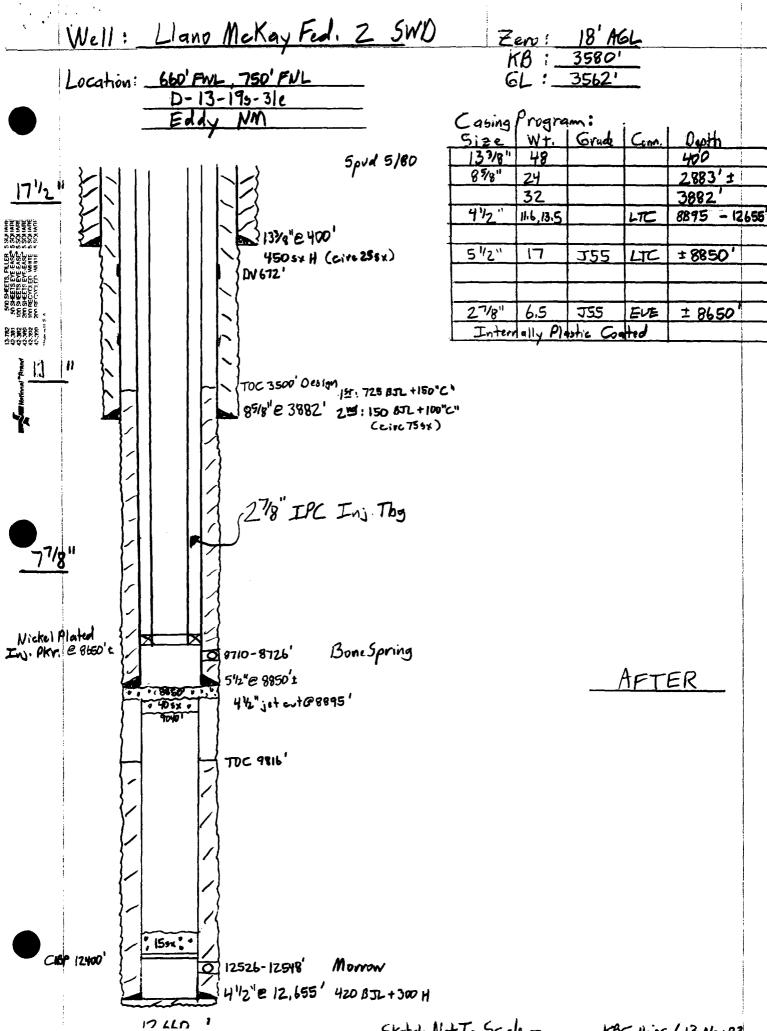
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# Application for Authorization to Inject Llano McKay Federal 2 SWD Unit D, Section 13-T19S-R31E



- V. Map is attached.
- VI. Two wells within the 1/2 mile radius area of review penetrate the proposed injection zone. A wellbore diagram of each one is attached.
- VII. 1. Proposed average daily rate = 1500 BWPD Proposed maximum daily rate = 5000 BWPD
  - 2. Proposed maximum injection pressure = 1742 psi (0.2 psi/ft)
  - 3. System is closed
  - 4. Source of injection fluid will be re-injected Bone Spring produced water.
  - 5. Disposal zone water will be the same as the produced water. Water analysis attached. There will be no compatibility problems. The proposed injection zone is structurally low to any area producers and is water productive.
- VIII. The injection zone is the 2<sup>nd</sup> Bone Spring Carbonate from 8710' to 8726' and is composed of dolomite bounded by tight Bone Spring sandstones. Underground sources of drinking water will be shallower than 400 feet deep.
  - IX. The proposed injection zone will be acidized with 5,000 gallons 20% HCL acid
  - X. Logs are filed with the Division. A section of the neutron-density log is attached.
  - XI. There are no fresh water wells within one mile of the Llano McKay Fed. 2.
- XII. After examining available geologic and engineering data, there is no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Proof of Notice is attached.





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KAZILING / 13 NOV 02

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MBCollins / 13 NOV 02

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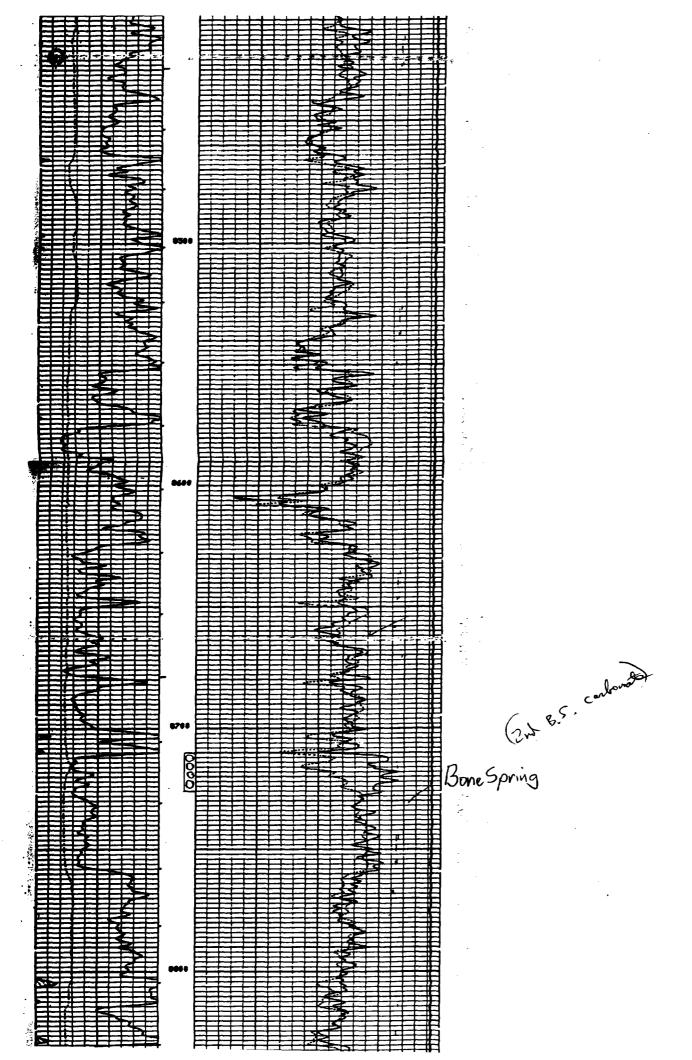
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CENTRAL OPERATIONS LABORATORY
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HOBBS, NEW MEXICO

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Shacklelford Oil Co. P. O. Box 10665 Midland, TX 79702

Re: Application to Inject

Liano McKay Federal No. 2

Township 19 South, Range 31 East, NMPM

Section 13: 750' FNL and 660' FWL

**Eddy County, New Mexico** 

#### Gentlemen:

Enclosed for your review is a copy of Marbob Energy Corporation's application to convert the referenced well into a saltwater disposal well. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter. If you have no objections to our application, please indicate below and return one copy of this letter to our office.

Please do not hesitate to contact us should you have any questions.

Sincerely,

Brian Collins Petroleum Engineer

BC/dlw enclosure

Shackelford Oil Co. has no objection to the proposed disposal well:

By: \_\_\_\_\_\_
Title: \_\_\_\_\_
Date:



energy corporation-

November 14, 2002

BTA Oil Producers P. O. Box 1203 Jal, NM 88252

Re: Application to Inject

Llano McKay Federal No. 2

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Sincerely,

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Brian Collins

Petroleum Engineer

BC/dlw enclosure

BTA Oil Producers has no objection to the proposed disposal well:

By:

Title:



Concho Resources, Inc. 110 W. Louisiana #410 Midland, TX 79701

Re: Application to Inject

Llano McKay Federal No. 2

Township 19 South, Range 31 East, NMPM

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Sincerely,

Brian Collins Petroleum Engineer

BC/dlw enclosure

Concho Resources, Inc. has no objection to the proposed disposal well:

By: \_\_\_\_\_\_\_

Title: \_\_\_\_\_\_

Date: \_\_\_\_\_\_



energy corporation-

November 14, 2002

ChevronTexaco Exploration & Production Co. 15 Smith Road Midland, TX 79705

Re: Application to Inject

Llano McKay Federal No. 2

Township 19 South, Range 31 East, NMPM

Section 13: 750' FNL and 660' FWL

**Eddy County, New Mexico** 

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Please do not hesitate to contact us should you have any questions.

Sincerely.

**Brian Collins** 

Petroleum Engineer

BC/dlw enclosure

ChevronTexaco Exploration & Production Co. has no objection to the proposed disposal well:

By: \_\_\_\_\_\_
Title: \_\_\_\_\_
Date:



energy corporation—

November 14, 2002

Gruy Petroleum Management Co. 3300 North A St., Bldg 8, Ste. 120 Midland. TX 79705

Re: Application to Inject

Llano McKay Federal No. 2

Township 19 South, Range 31 East, NMPM

Section 13: 750' FNL and 660' FWL

**Eddy County, New Mexico** 

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Sincerely,

Brian Collins

Petroleum Engineer

BC/dlw enclosure

Gruy Petroleum Management Co. has no objection to the proposed disposal well:

By: \_\_\_\_\_\_
Title: \_\_\_\_\_
Date:



Lynx Petroleum Consultants, Inc. P. O. Box 1708 Hobbs, NM 88241

Re: Application to Inject

Llano McKay Federal No. 2

Township 19 South, Range 31 East, NMPM

Section 13: 750' FNL and 660' FWL

**Eddy County, New Mexico** 

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Please do not hesitate to contact us should you have any questions.

Sincerely,

Brian Collins
Petroleum Engineer

BC/dlw enclosure

Lynx Petroleum Consultants, Inc. has no objection to the proposed disposal well:

By:
Title:
Date:



Artesia Daily Press P. O. Box 190 Artesia, NM 88211-190

Re: Legal Notice

Salt Water Disposal Well

## Gentlemen:

Enclosed is a legal notice regarding New Mexico Oil Conservation Division C-108 Application for Authorization to Inject for a salt water disposal well.

Please run this notice and return the proof of notice to the undersigned at Marbob Energy Corporation, P. O. Box 227, Artesia, NM 88211-0227.

Sincerely,

**Brian Collins** 

Petroleum Engineer

BC/dlw

enclosure

## ARTESIA DAILY PRESS LEGAL NOTICES

Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico, 88211-0227, has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Llano McKay Federal No. 2 is located 750' FNL and 660' FWL, Section 13. Township 19 South, Range 31 East, Eddy County, New Disposal water will be sourced from area wells producing from the Bone Spring formation. The disposal water will be injected into the Bone Spring formation at a depth of 8710'-8726' at a maximum surface pressure of 1742 psi and a maximum rate of 5,000 BWPD. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, Santa Fe, New Mexico, 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Brian Collins at Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico 88211-0227, or call 505-748-3303.

Published in the Artesia Daily Press, Artesia, New Mexico \_\_\_\_\_\_, 2002.



Artesia Daily Press P. O. Box 190 Artesia, NM 88211-190

Re: Legal Notice

Salt Water Disposal Well

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Sincerely,

**Brian Collins** 

Petroleum Engineer

BC/dlw

enclosure

## ARTESIA DAILY PRESS LEGAL NOTICES

Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico, 88211-0227, has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Llano McKay Federal No. 2 is located 750' FNL and 660' FWL, Section 13, Township 19 South, Range 31 East, Eddy County, New Mexico. Disposal water will be sourced from area wells producing from the Bone Spring formation. The disposal water will be injected into the Bone Spring formation at a depth of 8710'-8726' at a maximum surface pressure of 1742 psi and a maximum rate of 5,000 BWPD. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, Santa Fe, New Mexico, 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Brian Collins at Marbob Energy Corporation, Post Office Box 227, Artesia, New Mexico 88211-0227, or call 505-748-3303.

Published in the Artesia Daily Press, Artesia, New Mexico , 2002.

Llano Mckay Fest

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION OF LIFE
Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  Print your name and address on the reverse so that we can return the card to you.  Attach this card to the back of the mailpiece, or on the front if space permits.  1. Article Addressed to:  Bureau of Land Managem 2909 S. Sucord St.  Roswell, MM 88201	A. Received by (Please Print Clearly)  B. Date of Delivery  C. Signature  X  Agent Addressee  D. Is delivery address different from Item 17 If Yes If YES, enter delivery address below:
Rosineer, im 88207	3. Service Type    Descripted Mail   Express Mail     Registered   Return Receipt for Merchandise     Insured Mail   C.O.D.   4. Restricted Delivery? (Extra Fee)   Yes
2. Article Number (Copy from see 7002	0860 0006 7056 7286
PS Form 3811, July 1999 Domestic Ref	urn Receipt 102595-00-M-0952



December 18, 2002

Bureau of Land Management 2909 S. Second St. Roswell, NM 88201

Re: Application to Inject

Llano McKay Federal No. 2

Township 19 South, Range 31 East, NMPM

Section 13: 750' FNL and 660' FWL

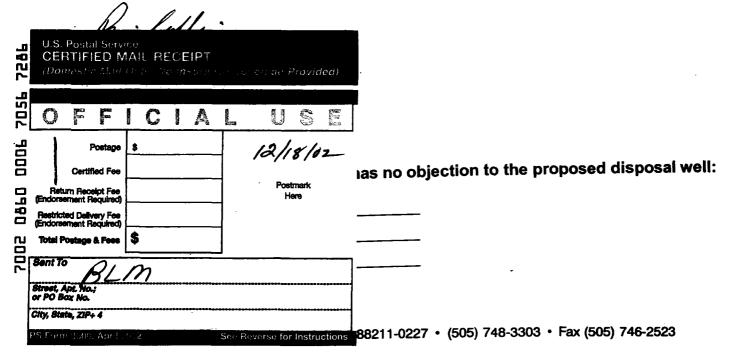
**Eddy County, New Mexico** 

## Gentlemen:

Enclosed for your review is a copy of Marbob Energy Corporation's application to convert the referenced well into a saltwater disposal well. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter. If you have no objections to our application, please indicate below and return one copy of this letter to our office.

Please do not hesitate to contact us should you have any questions.

Sincerely,



Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired.  Print your name and address on the reverse so that we can return the card to you.  Attach this card to the back of the malipiece, or on the front if space permits.  1. Article Addressed to:  Lyny, Patrioleum Consultation P.D. Box 1788	A. Received by Please Print Clearly)  B. Date of Delivery  C. Signatury  X	1999	Article Number (Copy from	RECOGNITE THE THE TENT OF THE MARKET HERMS 1, 2, and 3. Also of if Restricted Delivery is deal your name and address on the front if space permits.  Addressed to:  Hoders Hotel AST, But Color Tout I space permits.
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so that we can return the card to you.  Attach this card to the back of the melipiece, or on the front if space permits.  1. Article Addressed to:  Thackelfood Oil, Co.  P.O. Box 10665  Midland, TX 19702	X BAD Livey   Addressed   Addr	102595-00-M-0952	tri	B. Date of Dalwary  D. Agent  D. Agent  D. Agent  No  Out To Marchands
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	sturn Receipt Liano Melay 102565-00-04-0052	•		RTD Producers notified us
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	3. Service Type   IZ Certified Mell    Express Mell    Registered    Recum Receipt for Merchandlee    Insured Mell    C.O.D.     Restricted Delivery? (Extra Fee)    Yes	<b>=</b> -		
	0 0006 6419 2091 The Market 102505-00-M-0032	<b>-</b>		
■ Complete Items 1, 2, and 3. Also complete Item 4 if Restricted Delivery is desired.  ■ Print your name and address on the reverse so that we can return the card to you.  ■ Attach this card to the back of the melipiece, or on the front if space permits.  1. Article Addressed to:  **Luran Texaco Sypt + Prad Co.  **IS Small. Bd.**  **Midland, TX 79785*	A. Received by Please Print Clearly)  C. Storeton  Agent  Addresses  D. te cleivery address below:  No	_		
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