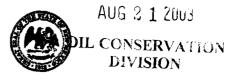
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION



- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

Т	HIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Appil	cation Acronyms: [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [3WD-Sait Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced OII Recovery Certification] [PPR-Positive Production Response]
[1]	TYPE OF APPLICATION - Check Those Which Apply for [A] [A] Location - Spacing Unit - Simultaneous Dedication [] NSL [] NSL [] NSL
	Check One Only for [B] or [C] [B] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
	[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR
	[D] Other: Specify
[2]	NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [A] Does Not Apply Working, Royalty or Overriding Royalty Interest Owners
	[B] Offset Operators, Leaseholders or Surface Owner
	[C] . 🖾 Application is One Which Requires Published Legal Notice
	[D] X Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E] For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F] Waivers are Attached
[3]	SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Eddie W. Seay	_ Elline	Agent	8-6-03
Print or Type Name	Signature	Title	Date
		seay04@leaco.	net
		e-mail Address	
		505-392-	89 49 Fax

STATE OF NEW MEXICO ENERGY, MINERALS AND) NATURAL RESOURCES DEPARTMENT							
Oil Conservation Division 1220 South St. Francis Dr.Santa Fe, New Mexico 87505FORM C-108 Revised 4-1-98								
APPLICATION FOR AUTHORIZA	ATION TO INJECT							
ISecondary Recovery	Pressure Maintenance							
X Disposal Storage Application qualifies for administrative approval?	X Yes No							
II. OPERATOR: Turrentine Oil & Gas Inc.								
ADDRESS: Box 11173 Midland, TX 79702								
CONTACT PARTY: David Turrentine	PHONE: (432)570 - 4038							
III. WELL DATA: Complete the data required on the rever for injection. Additional sheets may be attached if ne								
IV. Is this an expansion of an existing project? If yes, give the Division order number authorizing the project.	Yes X No 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:
 - 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 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: Eddie W. Seay TITLE: Agent SIGNATURE: DATE: 06/2003

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: <u>1993 SWD Application</u>.

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

Side 1 INJECTION W	ELL DATA SHEET		
OPERATOR: Turrentine Oil + Gas			
WELL NAME & NUMBER: Same Deep #1			
WELL LOCATION: 330 FSL / 2310 FWL /	LETTER SE	9999 CTION TOWNSHIP	38 RANGE
<u>WELLBORE SCHEMATIC</u>	<u>WEL</u>	<u>L CONSTRUCTION DA</u> Surface Casing	1 <u>TA</u>
	Hole Size: 172	Casing Size:	1338
	Cemented with: <u>375</u> Top of Cement: <u>Circu</u>		ft ³
133 " casing set at 390 with 375 sx of <u>C</u> cement		Intermediate Casing	
	Hole Size:	Casing Size:	
	Cemented with:	SX. <i>Of</i>	ft ³
	Top of Cement:	Method Detern	nined:
		Production Casing	
23 Pkr at 5050	Hole Size:/	Casing Size:	85
88 " casing set at 5120 ' with 400 sx of C cement	Cemented with: 400		ft ³
	Top of Cement: 416	<u>0</u> Method Determ	nined: 75
the second states and the se	Total Depth: 7500		
	5120'	Injection Interval feet to feet to	00
TD-8500'	(Perforat	ted of Open Hole indicate	e which)

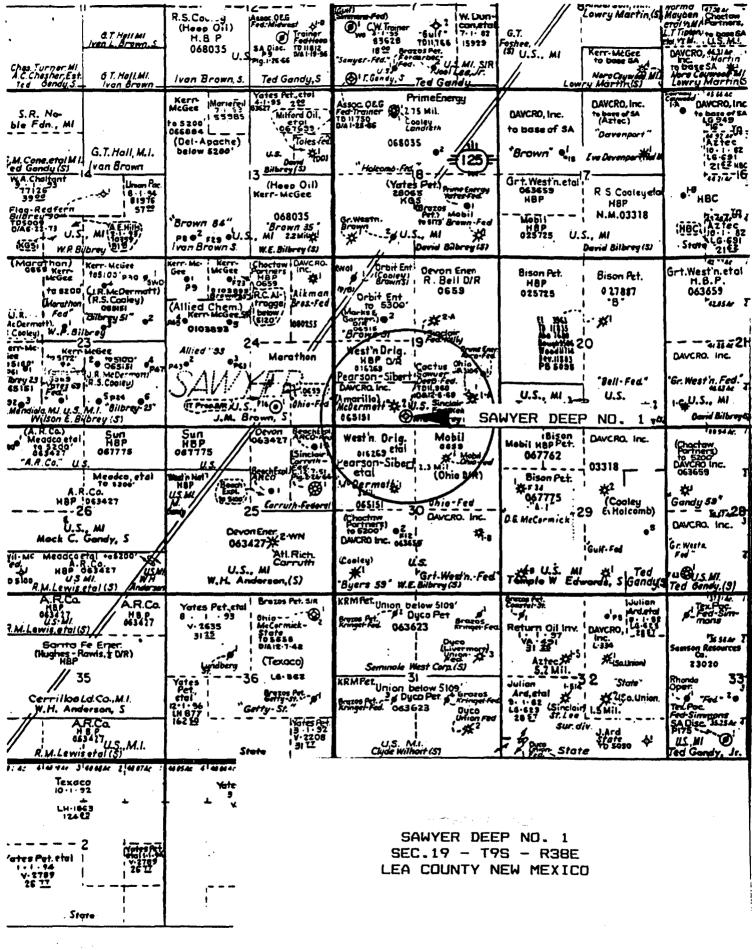
INJECTION WELL DATA SHEET

Tubi	ng Size: 27 Lining Material: IPC	
Туре	of Packer: Baker Model D	
Pack	er Setting Depth: <u>5050</u>	
Othe	r Type of Tubing/Casing Seal (if applicable): NA	
	Additional Data	
		1
1.	Is this a new well drilled for injection?YesNo	
	If no, for what purpose was the well originally drilled?	
2.	Name of the Injection Formation: Lower San Andres / Bough C.	n an
3.	Name of Field or Pool (if applicable): Sawyer	م الم معرف المراجع الم
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	
	No Perfs; Well is PHH well bore schematic	attached
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposinjection zone in this area: $(1 + 2) = (1$	ed -
	Wolfcamp formation at 91001	- -

Side 2

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108 cont.

Part III. A

Sawyer Deep No. 1
 330' FSL and 2310' FWL
 Sec. 19, Tws. 9 S., Rng. 38 E.
 Unit N
 Lea County, New Mexico

2) HOLE SIZE	CASING	DEPTH	CEMENT
17 1/2"	13 3/8"	391'	375 sx circulated
11"	8 5/8"	5120'	400 sx TOC 4160'
7 7/8"	No csg. set	11960'	

- 3) Propose to run approximately 5050' of 2 7/8" plastic lined tubing.
- 4) Propose to use a tension packer as a seal, and load the casing annulus with inhibited fluid.

Part III. B

- 1) The injection formation is the lower San Andres, and Bough C, the well is located in the Sawyer San Andres Field.
- 2) The injection interval will be open hole from 5120' to approximately 8500'. The open hole section includes the San Andres section and the Bough C.
- 3) This well was originally drilled as an oil well by Cactus Drilling Corp. of Texas, and was D & A.
- 4) This well was not perforated.
- 5) There is no deeper oil production in the area. The San Andres is productive in offset wells in the P1 and P2 zones. The injection interval is the P3 and remainder of the San Andres and Bough C, and is not production in this area.

Part VII.

- 1) Proposed average daily injection will be 500 bbls. per day. Maximum will be 1000 bbls. per day.
- 2) The system will be open.
- 3) The average injection pressure will be O (vacuum). The maximum will not exceed the limits set forth by the OCD.
- 4) The source of the water will be from Turrentine Oil & Gas operated leases, and from San Andres production in the surrounding area.
- 5) The San Andres is productive within one mile of the Sawyer Deep No. 1 well.

Part VIII.

The injection interval is the lower San Andres Formation and Bough C, and is composed of Anhydrite and porous Dolomite. The top of the San Andres is at approximately 4195'(-231), and the base at approximately 5605'(-1641), with a thickness of 1400'. The Bough C is from 7600' to 8500'. This entire area is overlain by the Quaternary Alluvium and Caliche. The Ogalalla at 150' to 300' below surface is the major source of fresh water in the area. There is no fresh water zones below the San Andres.

Part IX.

The disposal interval will be treated with a 5000 to 7500 gallon acid job.

Part X.

The logs were previously submitted by Cactus Drilling Corp. of Texas.

Part XI.

There is one active fresh water well within one mile of the Sawyer Deep No. 1 location. The chemical analysis for this well is attached.

Part XII.

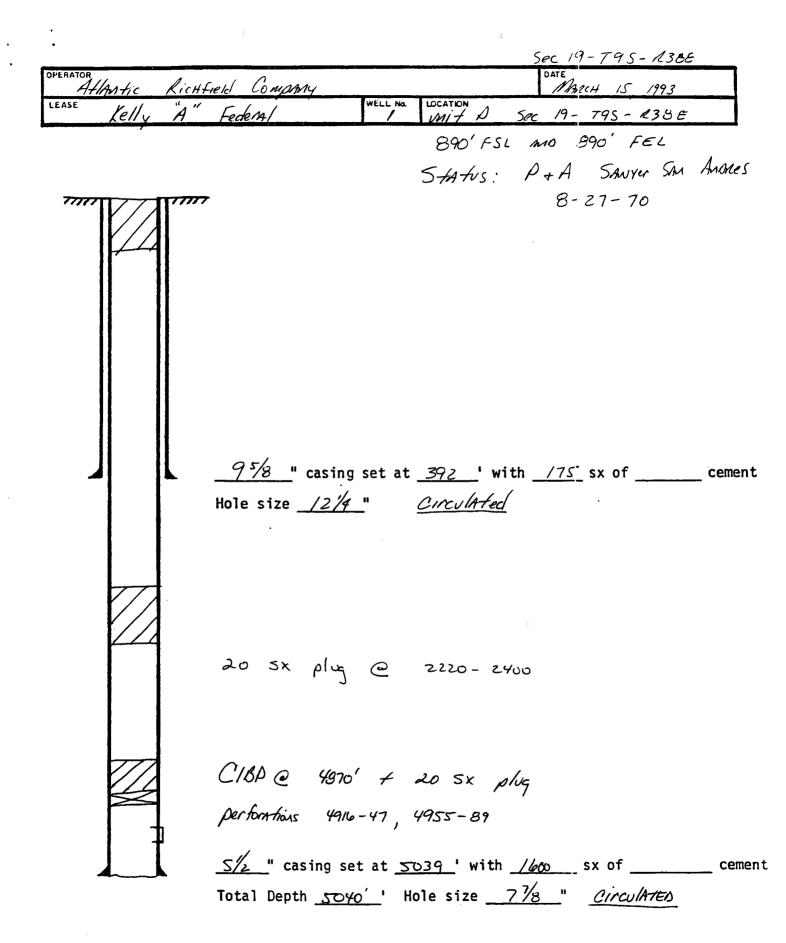
We have examined all available geologic and engineering data, and find no evidence of open faults or any other hydrologic connection between the disposal interval and any underground source of drinking water.

OPERATOR DATE: 8/6/2003 Turrentine O+G N Sat WELL No. LEASE Sawyer Deep R 38E T4 C 330/F5L 2310 FWL Proposed Completion Sol State <u>135</u> " casing set at <u>39/</u> ' with <u>375</u> sx of _____ cement Hole size 172 " 27 plastic lined tubing + pacter set at approx. 5050. **9**[†] casing set at **5120**' with **400** sx of _____ cemer Total Depth _____ Hole size ____ open hole to 8500

$$Sec. A-775-238E$$

$$\frac{1}{1244E} \qquad \frac{1}{1244E} \qquad \frac{1}{1244E$$

PRIME	OpenATING Co.	MPANY		DATE MARCH IS 199
LEASE Arco 19		WELL NO.	UNIT I Se	c 19- 795- 238
			1650' FSL	+ SOU'FEL
				Active PRODUCER
	m		SAWYE	+ Sin Anones
	8% "ca	nsing set at	4/7 ' with	<u>_250</u> sx of
		•		
	Hole size		CIRCULATED	
			_	
	perforations	: 4908-	- 5001	
	,			25 sx of



Sec 19-795-138E DATE OPERATOR BAUCKO Inc NIMCH 15 1993 LOCATION VAIT N WELL Na. LEASE MCDermott_federal Sec 19 - T95 - 1386 1980' FWL - 660' FSL STATUS: ACTIVE PRODUCER SAWYER SAN ANDRES 7777 1111 $\frac{85}{2}$ " casing set at $\frac{401}{1}$ with 300 sx of _____ cement Hole size <u>1214</u>" CIRCULATED perforations: 4940-58 4970 - 96 41/2" casing set at <u>SOOB</u>' with <u>400</u> sx of _____ cement Total Depth <u>5008</u> Hole size <u>7/8</u> Toc 3937 50% Efficiency

5ec 30-T95-R38E Mobil PRODUCING TX MD NM The WELL NO. LOCATION 15- 1993 LEASE <u>OH</u>IO UNIT B Sec 30-7 95- 139E FEDERAL 990' FNL And 1650' FEL Statas: P+A Sowyer SAN ANDRES 1-4-85 11117 <u>85/8</u> " casing set at <u>361</u> ' with <u>175</u> sx of _____ cement Hole size 12/4 " (ASSUME) CINCULATED perf 410' circ hole, sgz w/ 105 sxs cmt, cmt circulated to surface TAgged @ 2238' spot is sxs @ 2180' TAgged @ 2076' perf 2200' + sq2 w/ 25 5x3 50% in + out of 41/2" (sg Perf 2500' SQZ w/ 25 SXS 50% in tent of 41/2" (SQ. TAgged @ 2380' SET CIBP + 5 SXS CMt @ 4850 - 4790 perforations 4897-99, 4902-13, 4922-29, 4938-46 4968-72 <u>4/z</u> " casing set at <u>5044</u>' with <u>240</u> sx of _____ ____ cement Total Depth <u>5044</u> Hole size 7% "(Assume) TOC @ 4401 50% efficiency

30- T95- 13BE OPERATO Inc DAVCRO MMCH 15 1993 WELL No. LOCATION LEASE MC DERMOTT FEDERAL 1980'FNL + 1980' FWL UNIT F SEC 30 - 795 - R38E Active Peopucer Status: SAWYER SAN Anders 7117 77777 $\underline{85}$ " casing set at <u>380</u> ' with <u>350</u> sx of _____ cement Hole size 12/4 " CINCULATED porforations 4931-36 4952 - 78 4986 - 96 <u>41/2</u> " casing set at <u>50/0</u> ' with <u>400</u> sx of _____ cement Total Depth <u>SD10</u> Hole size 7¹/8 Toc @ 3939 50% Efficiency

OPERATOR THE 0410	OIL COMPANY	<u> </u>	·····	Sec 19-795-1238E DATE MARCH 15 1993
LEASE Faderal	Kelly A	WELL Na	LECATION D S	ec 19-: 795 - 138E
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PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS. NM 88240

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS HOBBS, NM 88242 FAX TO: (505) 392-6949

Receiving Date: 06/10/03 Reporting Date: 06/15/03 Project Owner: D. TURRENTINE Project Name: GANDY/TURRENTINE Project Location: NW TATUM, NM Sampling Date: 07/10/03 Sample Type: GROUNDWATEF: Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: AH

LAB NUMBER SAMPLE ID	P-Alkalinity (mg/L)	T-Alkalinity (mg/L)	Hardness (mg/L)	Chloride (mg/L)	Sulfates (mg/L)	рН (s.u.)
ANALYSIS DATE	07/14/03	07/14/03	07/14/03	07/14/03	07/14/03	07/14/03
H7798-1 TG #1	0	179	272	120	51.6	7.71
H7798-2 TB #1	0	212	266	92	39.6	7.58
Quality Control	NR	NR	55	1020	54.39	7.01
True Value QC	NR	NR	50	1000	50.00	7.00
% Recovery	NR	NR	110	102	109	100
Relative Percent Difference	NR	NR	0	0	0.7	0.6
METHODS: EPA 600/4-79-02	-	-	130.2	325.3	375.4	150.1
Standard Method	2320 B	2320 B	-	-	-	-
	Hydroxides	Carbonate	Bicarbonat	Conductivity	TDS	
LAB NUMBER SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(umhos/cm)	(mg/L)	
ANALYSIS DATE	07/14/03	07/14/03	07/14/03	07/14/03	07/15/03	7
H7798-1 TG #1	0	0	219	1091	599	1
H7798-2 TB #1	0	0	258	889	533	
						-

Quality Control NR 1068 NR 1322 NR True Value QC NR NR 1000 1413 NR NR % Recovery NR 107 93.6 NR **Relative Percent Difference** NR NR 7.7 0.7 12.1

METHODS: EPA 600/4-79-02 120.1 160.1 -2320 B 2320 B 2320 B Standard Method

Chemist

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of prc/fits incurred by client, its subsidiaries, affiliates progressors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

TURRENTINE OIL & GAS BOX 11173 MIDLAND, TX 79702

RE: Sawyer Deep #1 Unit N., Section 19, Tws. 9 S., Rng. 38 E., Lea Co.

Dear Sir:

In accordance with the rules and regulations of the Oil Conservation Division of the State of New Mexico, you are being provided a copy of the C-108 Application for Authorization to inject in the above captioned well.

Any questions about the permit can be directed to Eddie W. Seay, (505)392-2236. Any objections or request for hearing must be filed with the Oil Conservation Division within fifteen (15) days from the date received. The OCD address is Box 6429, 1220 S. Saint Francis Drive, Santa Fe, NM 87504, (505)476-3440.

Thank you,

ddie w Dean

Eddie W. Seay, Agent 601 W. Illinois Hobbs, NM 88242 (505)392-2236

NOTICE

Turrentine Oil & Gas Box 11173 550 W. Texas Ave., Ste. 440 Midland, TX 79702

W. E. Bilbrey - Landowner HC 65 Box 55 Crossroads, NM 88114

Prime Energy 3300 N. "A" Bldg. One, Ste. 238 Midland, TX 79705

Beach Expl. Inc. 800 N. Marienfield, Ste. 200 Midland, TX 79701

NMOCD Box 6429 1220 S. Saint Francis Drive Santa Fe, NM 87504

Legal Notice

Pursuant to the new rules and regulations of the Oil Conservation Division of the State of New Mexico, Turrentine Oil & Gas, Box 11173 Midland Texas 79702 is filing application for a salt water disposal. The well being applied for is the Sawyer Deep #1 located in Unit N section 19 T9**\$** Rng 38 E Lea Co. New Mexico. The injection formation is the San Andres and Bough C from 5000' to 8500'. The expected maximum rate of injection will be 1000 bbls per day and the maximum injection pressure of 1000 psi. Any questions about the application can be directed to Eddie W. Seay (505)392-2236, or any objections or request for hearing must be directed to the Oil Conservation Division (505)476-3440 Box 6429, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87504 within fifteen (15) days.

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse 	A. Signature X Caule Syle Agent Addressee
 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. 	B. Received by (Printed Name) C. Date of Delivery C_IANDY/_LY/C B-I3-03 D. Is delivery address different from item 1? Yes
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Midland, TX 79702	3. Service Type 3. Service Type Image: Certified Mail Image: Cert
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Beach Expl. Inc. 800 N. Marienfield, Ste. 200 Midland, TX 79701	
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 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. 	B. Received by (Printed Name) C. Date of Delivery
1. Article Addressed to:	D. Is delivery address different from item 1? Yes If YES, enter delivery address below: No
W.E. Bilbrey HC-65 Box 55	
Crossroads, NM 88114	3. Service Type
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2. Article Number (Transfer from service label, 7001, 1,940,000) S Form 3811, August 2001	4. Restricted Delivery? (Extra Fee)
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Affidavit of Publication

STATE OF NEW MEXICO

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COUNTY OF LEA

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertisting Director of **THE LOVINGTON DAILY LEADER**, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled

Legal Notice

was published in a regular and entire issue of THE LOV-

INGTON DAILY LEADER and not in any supplement there-

of, for <u>one (1) day</u>, beginning with the issue of

August 8 , 2003 and ending with the issue

of <u>August 8</u>, 2003.

Subscribed and sworn to before me this 19th day of

August_2003. Debbie Schilling

Notary Public, Lea County, New Mexico My Commission Expires June 22, 2006 φ. LEGAL NOTICE Pursuant to the new rules and regulations of the Oil Conservation Division of the State of New Mexico, Turrentine Oil & Gas, Box 11173, Midland, Texas 79702 is filing application for a salt water disposal. The well being applied for is the Sawyer Deep #1 located in Unit N Section 19 T9S Rng 38 E Lea Co. New Mexico. The injection formation is the San Andres and Bough C from 5000' to 8500. The expected maximum rate of injection will be 1000 bbls per day and the maximum injection pressure of 1000 psi. Any questions about the application can be directed to Eddie W. Seay, (505) 392-2236, or any objections or request for hearing must be directed to the Oil Conservation Division (505) 476-3440 Box 6429, 1220 South Saint Francis Drive, Santa Fe, New Mexico 87504 within fifteen (15) days. Published in the Lovington Daily Leader August 8, 2003.