I.	Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage Application qualifies for administrative approval? ☐ yes ☐ no									
11.	Operator: C & C Operating Corp.									
	Address: P. O. Box 6016 Hobbs, NM 88241									
	Contact party: Joe D. Ramey Phone: 392-6525									
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 yno If yes, give the Division order number authorizing the project									
ν.	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:									
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an apprepriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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.). 									
III.	Attach appropriate geological data on the injection zone including appropriate litholog 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 $10,000~\rm mg/l$ or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.									
IX.	Describe the proposed stimulation program, if any.									
х.	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 source of drinking water.									
111.	Applicants must complete the "Proof of Notice" section on the reverse side of this form									
xıv.	Certification									
	I hereby certify that the information submitted with this application is true and correcto the best of my knowledge and belief.									
	Name: Loe b. Ramey Title Consultant									
	Signature: Date:									

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	660'S & E FOUTAGE LOCATION	1.2 SECTION	18 South TOWNSHIP	36 East RANGE
Schem	ntic	Ta	bular Data	
		Surface Casing Size 8 5/8"	feet determined by	
		Intermediate Casing Size	Cemented with feet determined by	
		Long string Size 5½ " TOC 3500' Hole size 7 7/	Comented with	295 Temp. Survey
	Tubing & p @ 4833'	(perforated or open ho		_ fnet
	5½" @ 5202 W/ 295 sxs			
		ied with <u>Salta PVC</u> (mate:		
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WELLS WITHIN AREA OF REVIEW

Cavalcade Oil Corp.

Silver State No. 1

330' N & 1980' W

Section 13, Township 18 South, Range 36 East

8 5/8" casing @ 1322' with 625 sxs. Circulated 135 sxs. 12½" hole.

4½" casing @ TD 5175' with 700 sxs. Calculated top of cement 2175'.

7 7/8" hole.

Perforated in San Andres and completed as an oil well. 4912'-5066'

August production-303 bbls. oil, 462 bbls. water.

Cavalcade Oil Corp.

Golden State No. 1
660' S & 1980' W
Section 12, Township 18 South, Range 36 East
8 5/8" casing @ 1350' with 425 sxs. Circulated 136 sxs. 11" hole.
55" casing @ Td 5227' with 675 sxs. Calculated top of cement 1900'.
7 7/8" hole.
Perforated in San Andres 4905'-5074' and completed as an oil well.
Temporary abandoned San Andres by setting bridge plug @ 4875'.
Perforated Queen 4382'-4394'. Tested 40 MCF/Day. Is now shut-in.

C & C Operating Corp.

Lea OR State No. 2

560' S & 1980' E

Section 12, Township 18 South, Range 36 East

8 5/8" casing @ 360' with 240 sxs. Cement circulated. 12%" hole.

5%" casing @ TD 5210' with 295 sxs. Top cement 3700' by Temperature Survey. 7 7/8" hole.

Perforated in San Andres 4916'-5066' and completed as an oil well.

August production-130 bbls. oil, 380 bbls. water

PLUGGED AND ABANDONED WITHIN AREA OF REVIEW

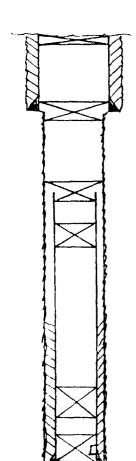
Axtec Oil & Gas Co.

Gulf State No. 1 1980'S & E

Section 12, Township 18 South, Range 36 East

- 8 5/8" Casing set @ 357' with 240 sxs., circulated 40 sxs. $12\frac{1}{4}$ " hole.
- $5\frac{1}{2}$ " casing set @ 5200'(Total depth) with 325 sxs. Top of cement @ 3200' by Temperature Survey. 7 7/8" hole
- Perforated 4992'-5104' and originally completed as an oil well in the Arkansas Junction San Andres Pool.

Plugged & abandoned as illustrated below:



10 sx. plug at the surface

25 sxs. 307'-407'

 $5\frac{1}{2}$ " casing cut and pulled at 1262' 25 sxs. 1200'-1300'

25 sxs. 1852'-2067'

25 sxs. 3865'-4080'

25 sxs. 4940'-5155'

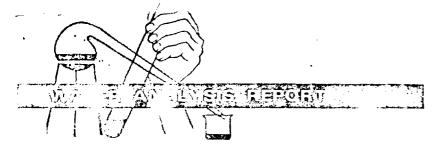
C & C Operating Corp. will operate the Lea OR State No. 3 disposal system as a closed system. Only produced water from the Arkansas Junction San Andres Pool will be injected into the well. The initial volume will be 20 bbls. per day with an anticipated maximum volume of 100 bbls. per day. The well will initially accept fluid on a vacuum and the maximum injection pressure should be 500 psi. However, a maximum pressure for the well of 988 psi is requested. Injection will be into the San Andres producing formation. The small volume injected will probably not affect the producing ability of surrounding producing wells and could give the operator an indication of the potential for future water-flood possibilities.

The San Andres in the area is predominately dolomite with some sand stringers. The formation reacts well to acid treatment and the perforations in the injection well have been treated with 100 gals. of acid. The top of the San Andres is around 4750 feet and has a total thickness of around 730 feet. Well logs have been previously submitted to the Division.

After examining the available engineering and geological data it is concluded that there is no evidence of open faulting or any other hydrologic connection between the disposal zone and the Ogallala fresh water source of drinking water in the area. The depth to the base of the Ogallala in the area is around 290 feet. Analysis from several fresh water wells in the area is attached to this application.

Treated oil has been pumped into the annular space above the packer and a pressure guage will be installed to monitor for tubing or packer leakage.

Copies of this application have been forwarded to the surface owner and lessee and to all leasehold operators within one-half mile of the injection well, list attached.





BOX 4513 ODESSA, TEXAS 79760

TECH SERVICE LABORATORY: Odessa, Texas Phone (915) 337-0055 & 563-0863 RESEARCH LABORATORY: Houston, Texas Phone (713) 431-2561 PLANT: Odessa, Texas Phone (915) 337-0065

REPORT FOR Patrick	Gray		DATE SAMPLED	12-26-85					
cc <u>Skidmore</u>			DATE REPORTED12-26-85						
CC			FIELD LEASE OR W	_ FIELD, LEASE, OR WELL Fresh water					
cc					STATE				
COMPANY General P	etroleum		-		4				
	S-CI V I S-WIII			FORMATION					
ACOPESS	3. D 1		DEPTH						
SERVICE ENGINEER <u>Ceci</u>	1 Brumley		SUBMITTED BY		· · · · · · · · · · · · · · · · · · ·				
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Chemical Component	179 R36	7781136	T/9 1836	52 714 85	+,				
Con.ponent	#1	#2	#3	34 #4	6				
Chioriae (CI)	50	50	_50	50					
ron (Fe)	0	0	0	0					
Tatal Hardness (Ca COg)	190	230	200	190					
Salcium (Ca)	63	92	64	68					
Magnesium Mg,	4.9	9.7	9.7	4.9					
sicarponatii (HCO3)	232	183	195	207					
Darpenate (CDg)	0	<u> </u>	0	0					
Suitate (SO ₄)	41.3	90	61.2	57.5					
ayarogen Suifide (H ₂ S)	Ω	0	0	0					
Suscific Gravity	1.001	1.001	1.001	1.001					
SOT HEKKEMHOKK	449.3	445.2	423.4	438					
, in Seckmin Str.o ()	7.4	7.5	7.5	7.8					
Sodium	53.1	20.5	43.5	50.6					
Scale Index									
CaCO ₂ 25 E	0.23	0.35	0.23	0.58					
la co é 160 F	0.96	1.08	0.96	1.31					
CaSOA	neg.	neg	neg	neg.					
`T			MARKS AND DESC						
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OTHER DESCRIPTION, REMARKS AND RECOMMENDATIONS

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REPORTED BY	Joe	Edwards		<u> </u>	TITLS	Tech Serv	uica

L'.

Conoco, Inc. P. 0. Box 460 Hobbs, NM 88240

Maralo, Inc. P. O. Box 832 Midland, TX 79702

Elk Oil Company P. O. Box 310 Roswell NM 88201

Cavalcade Oil Corp.
P. O. Box 16187
Lubbock, TX 79490

New Mexico State Land Office P. O. Box 1148 Santa Fe, NM 87504-1148 Attention: Mr. Ray Graham

Snyder Ranches ✓ P. O. Box 726 Lovington, NM 88260

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<u>cc</u> Lambo No. -

LAGE NO. 8816