

Dinero Plaza 1004 North Big Spring St. P. O. Box 235 Midland, Texas 79702-0235

January 7, 1985

State of New Mexico Energy & Minerals Department P. O. Box 2088 Santa Fe, New Mexico 88210

### Gentlemen:

Please find enclosed a copy of Form C-108, Application for Authorization to Inject, regarding the proposed conversion of the Coastal Oil & Gas Corporation operated Flying "M" (SA) Unit Tract 10 Well #2. This well is located in Section 16, T-9-S, R-33-E and is part of the Flying "M" (SA) Unit Pressure Maintenance Project.

All wells within a one-half mile radius of the proposed conversion are within the unit boundaries and thus, are operated by Coastal Oil & Gas Corporation. The surface is owned by the State, but is leased to B. M. Medlin & Sons. A copy of this application will be sent to them via registered mail.

Coastal Oil & Gas Corporation requests administrative approval of this application per requirements set forth in Order No. R-3229 which provided for expansion of the pilot pressure maintenance project in the Flying "M" (SA) Unit.

If additional information is needed, please advise.

Sincerely,

Bobby L. Smith Petroleum Engineer

BLS:eh Attachment

JAN 101985

O.C.S. HOBBS OFFICE 

# OIL CONSERVATION DIVISION POST OFFICE BUX 2008 STATE LAND OFFICE BUX.DING SANTA FE. NEW MERICO 87501

FORM C-106 Revised 7-1-81

APPLICA	TION FOR AUTHORIZATION TO INJECT
I.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? .es no
II.	Operator: Coastal Oil & Gas Corporation
	Address: P. O. Box 235, Midland, Texas 79702
	Contact party: Bobby L. Smith Phone: 915 - 682-7925
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? X yesno If yes, give the Division order number authorizing the project
٧.	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 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/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.
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: Bobby L. Smith Title Petroleum Engineer
	Signature: Boldy L Smith Date: January 3, 1985
subm	he information required under Sections VI, VIII, X, and XI above has been previously itted, it need not be duplicated and resubmitted. Please show the date and circumstance he earlier submittal.

### 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:
  - Lease name; Well No.: location by Section, Township, and Range: and footage location within the section.
  - 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 snown 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, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15

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 RECEIVED

JAN 1 0 1985

# INJECTION WELL DATA SHEET

33-E  ed with 200 s  ned by Visual  ned by Sano  ed with 300  ned by Calculation  feet	Coastal 011	& Gas Corporation	Flying "M" (SA) Unit		
Schematic  Schematic  Schematic  Schematic  Schematic  Schematic  Schematic  Schematic  Surface Casing  Size  8-5/8 " Csg. @ 259"   Hole size 12-1/4" to 259"    Tabular Data  Size  8-5/8" csg. @ 259"   Hole size 12-1/4" to 259"    Toog string  Comp string  Long string  Comp string  Long string  Comp string  Long string  Comp string  Long string  A-1/2"   Csg. @ 4600" Injection interval  4-1/2"   Csg. @ 4600" Injection interval	OPERATOR		LEASE		
Schematic   Schematic   Surface Casing   Tabular Data	Tract 10 #2	& 665°	16	8 <b>-</b> 6	33-E
Surface Casing   Surface Casing   Size   8-5/8   Cemented with   200   Size   8-5/8   Cemented with   200   Size   8-5/8   Cemented with   200   Size   Size   Cemented with   Cemented with   Size   Cemented with   Size   Cemented with   300   Size   4-1/2   Cemented with   300   Get   4-1/2   Cese   4-	0N	LOCATI	SECTION	TOWNSHIP	RANGE
Schematic   Surface Casing   Size   8-5/8   "   Cemented with   200   s					
Size 8-5/8 " Cemented with 200 s  Size 8-5/8 " Cemented with 200 s  10C Surface feet determined by Visual  10C Surface feet determined by Visual  10L Size " Cemented with 10C feet determined by Hole size 4-1/2 " Cemented with 10C feet determined by 10C 3000 feet determined by Calculation  10tol depth 4600'  4-1/2" csg. © 4600' Injection interval  4454 feet to 4490 feet	Scher	natic	-1	ubular Data	
Size 8-5/8 " Cemented with 200 surface feet determined by Visual  10C Surface feet determined by Visual  10C Size " Cemented with  10C Rect determined by Hole size  10C Rect determined by Calculation  10C 3000 Feet determined by Calculation  10tal depth 4600'  10tal depth 4600'  10tal depth 4600'  10tal depth 10c Feet to 4490 Feet			Surface Casing		
8-5/8" csg. @ 259" Hole size 12-1/4" to 259'  8-5/8" csg. @ 259" Hole size 12-1/4" to 259'  7-7/8" hole   Intermediate Casing   Cemented with   10C   Feet determined by   Hole size   1-1/2   Cemented with   300   5ize   4-1/2   Cemented with   300   5ize   4-1/2   Cemented with   300   10C   3000   Feet determined by Calculation   Hole size   7-7/8   Total depth 4600'   10c size   7-7/8   Total depth 4600'   10c size   7-7/8   Total depth 4600'   Total depth 46			8-5/8	٠	
8-5/8" csg. @ 259' Hole size 12-1/4" to 259'  7-7/8" hole Intermediate Casing Size " Cemented with Hole size   Hole size   Cemented with   300 Size   4-1/2 " Cemented with   300 Size   4-1/2 " Cemented with   300 Include size   7-7/8   Total depth 4600'   Total dept		35/3 <sup>2</sup>		feet determined by	Visual
Size Cemented with 10C Cemented with 10C Cemented with 10C Cemented by 10C Cemented with 300 size 4-1/2 Cemented with 300 size 4-1/2 Cemented with 300 local size 7-7/8 lole size 7-7/8 lotal depth 4600' Lotal de	<u></u>	8-5/8" csg. @	size 12-1/4" to	9,	
Size "Cemented with TOC   Geet determined by Hole size   Cemented with 300   Long string   Size   4-1/2   Cemented with 300   TOC   3000   Geet determined by Calculation   Hole size   7-7/8   Total depth 4600'   Total depth 46		/ /-7/8" hole	Intermediate Casing		
Hole size  Long string  Size 4-1/2 " Cemented with 300  Size 4-1/2 " Cemented with 300  Hole size 7-7/8  Hole size 7-7/8  Total depth 4600'  4-1/2" csg. @ 4600' Injection interval  4454		7			
Hole size	~~~		100	feet determined by	
Long string  Size 4-1/2 " Cemented with 300  Size 4-1/2 " Cemented with 300  Hole size 7-7/8  Total depth 4600'  4-1/2" csg. @ 4600' Injection interval  4454 feet to 4490 feet			Hole size		
Size 4-1/2 " Cemented with 300  Feet determined by Calculation  Hole size 7-7/8  Total depth 4600'  4454 feet to 4490 feet			Long string		
Est. T/cmt. @ 3000' TOC 3000 feet determined by Hole size 7-7/8  Total depth 4600'  4-1/2" csg. @ 4600' Injection interval	~	<u></u>	4-1/2		
	نئىر	← Est. T/cmt.			Calculation
Total depth 4600' 4-1/2" csg. @ 4600' Injection interval 4454 Feet to 4490	~~~		size		
4-1/2" csg. († 4600' Injection interval 4454 feet to 4490	<u>ن</u> خد م	<del>PASS</del>	Total depth 4600'		
feet to 4490		4-1/2" csg. (14600"	Injection interval		
			4454 feet	to 4490	feet

	-	Raker AD-1	in a
		and model)	feet
	(or	describe an	
	Other	er Data	
		Name of the injection formation San Andres	
	2.	Name of Field or Pool (if applicable) Flying "M" (SA)	
	3.	Is this a new well drilled for injection? /// Yes / $\overline{\mathrm{X}}$ No	
		If no, for what purpose was the well originally drilled? Oil Production	
	4.	Has the well ever been perforated in any other zone(s)? List all such norforated internal	
		and give plugging detail (sacks of cement or bridge plug(s) used) No	וורפו אמ
	5.	Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. All wells within the unit are San Andres producers or injectors.	ls) in
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	0 1985	I <b>√≅D</b>	
	 )		

- VII. Proposed Operation.
  - 1. We anticipate the average injection rate and pressure to be 600 BWPD at 1820 psi. Anticipated maximum rate and pressure would be 850 BWPD at 2100 psi.
  - 2. This is a closed system.
  - 3. The fluid to be injected is predominantly water produced in the unit. If additional injection volume is needed, fresh water is utilized from a well approximately 5 miles south of the Flying "M" (SA) Unit. This system has been in use for several years.
- VIII. The recommended injection zone in the subject well occurs in the San Andres dolomite formation from 4434' to 4550'. This zone is approximately 250' below the top of the San Andres formation which was encountered at 4198'.

The lithologic description of the injection zone in the Flying "M" Field consist of a dense to porous dolomite with occassional vertical fracturing. The porosity is vugular to intercrystaline. The interval from 4454' to 4500' has been the main producing interval in the Flying "M" Field since it was discovered. Geologically, it is known as the Slaughter producing zone of the San Andres.

The geologic name and depth to underground source of drinking water is the Ogallala formation which occurs from 0'-400' in this area.

- IX. A small volume matrix acid stimulation will be performed on the well. This stimulation will consist of 2000-3000 gallons of 15% HCl.
- X. This well was drilled in 1964 (prior to unitization) as the Southern Minerals-State #2-16, operated by Coastal States Gas Producing Company. I assume logs were sent to the State at that time.
- XI. There are no fresh water wells within one mile of this proposed injection well.
- XIII. My interpretation of Division Order No. R-3229 pertaining to the Flying "M" (SA) Pressure Maintenance Project is that the proof of publication for administrative approval is not required for a conversion within the unit. If this is not the case, please advise.

All wells within one-half mile of the proposed conversion are within the Flying "M" Unit, operated by Coastal Oil & Gas Corporation.

JAN 10 1985

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Lease Flying "M" (SA) Unit Trac Location 65 ft.from West T-9-S, R-33-E Elevation 4384' GR Remarks	County <u>Lea</u>	Date
		8-5/8"Csg.Set @259' in 12-1/4" hole. Cmt.W/ 200 sacks (circ.)
		Est. top of cement at 3000' (calc.)  4-1/2Csg.Set @ 4600' in 7-7/8" hole.

Cmt. w/ 300 sacks.

Location 660 ft.from East	Line & 660 ft	.from South Line, Sec. 17, Blk.
Elevation 4377' GR Remarks	County <u>Lea</u>	State <u>New Mexico</u>
		7-5/8"Csg.Set @ 432' Cmt.W/250 sacks (circ.)
		6-3/4" hole
	} }	Est. top of cement 2650' (calc.)

4-1/2'csg.Set @ 4570'
Cmt. w/200 sacks "C"

Est. T/cmt. 2650' (calc.)

Date January 3, 1985

JAN 101985

O.C.D. HOBBS OFFICE

				Date	January 3	7, 1985
Lease Flying "M" (S	SA) Unit Tract	. We	11 No. 2	Operator	Coastal Oil	& Gas Corp.
Location 1980 ft.						
T-9-S, R-33-						
Elevation 4385' GR						
Eleastion						
				<del></del>	•	
Set 10 sack plug at s	surface.	5:1-22-	33.77 . 1 . 2 . 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4	3		
		<b>§</b>			-	
		<b>\</b>	$\mathcal{P}_{i}$	- 9-5/	/8" hole	
		<b>\</b>	,	1		
				<u>}</u>		
		<b>}</b> :		<b>\}</b>		
Set 50 sack plug at	300 '	<b>\( \)</b>		<b>:{</b>		
bee 50 back plag at	300 '• 3••′	<b>}</b>		<b>\{</b>		
	500 '			7_5/8"	Csg.Set @	431'
	300	<b>\}</b>	3	(	Cmt.W/ 250	sacks (circ.)
		}	}			
Cut 4-1/2" csg. at 1	460' and			' 		
pulled. Set 45 sack	plug at 1460'.	}		<b>,</b>		
		}		6-3/4" h	ole	
		}				
		}				
		}		{		
		}	55	Est. top	of cement 2	2640' (calc.)
		<b>)</b>		<b>\</b>		
				{		
				}		
		<b>(</b> 2)	1	<u>:</u> }		
		<b>(</b> )	ن ا	<b>.</b> }		
CIBP at 4350' - 3 sa	acks on ton			<b>;</b> }		
CIBP at 4330 - 3 Sa	icks on cop			3		
		<b>(</b>		3		
				3		
		<b>(</b> :)		3	_	
f .		(1-2		4-1/2"C	ag.Set @	4550 t

Cmt. w/ 200 sacks "C"

Lease Flying "M" (SA) Unit Tract			
Location 2116 ft.from North			
<b>SEPPREN</b> T-9-S, R-33-E			
Elevation 4376' GR Remarks			
	<i>(-,</i> 1 - 1	1 1)	
		11	" hole
		8-5/8	Cmt.W/ 200 sacks (circ.)
		7-	-7/8" hole
		E	st. top of cement 3400' (ca
		4-1/2"	Csg.Set @ 4554'

Date January 3, 1984

Cmt. w/ 200 sacks "C"

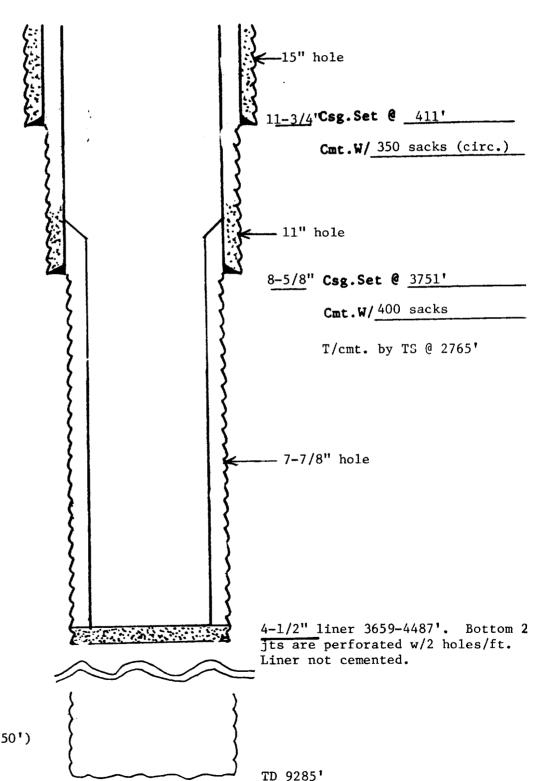
Lease Flying "M" (SA) Unit Tract 4 Well No. 4 Operator Coastal Oil & Gas Corp.

Location 1980 ft. from South Line 6 660 ft from East Line, Sec. 17 , Blk \_\_\_\_\_\_

Survey T-9-S, R-33-E County Lea State New Mexico

Elevation 4380' GR Remarks Original TD 9285' - P&A 7-10-65. Re-entered by

Coastal Oil & Gas Corp. in March, 1967.



(WOC and tagged top of plug at 4750')
75 sacks at 4600'
50 sacks at 3790'
10 sacks at surface
Re-entered 1967. Cleaned out to 4490'.
Ran 27 jts. 4-1/2" liner, bull plugged on bottom,

bottom 2 jts. perforated 2 holes/ft. Liner not cemented.

P&A 1965 as follows: 75 sacks at 9285' 150 sacks at 5160' 100 sacks at 5022'

Lease Flying "M" (SA) Unit Tra	ict 5	Well No. 2 0	perator Coastal Oil & Gas Corp.
			Line, Sec. <u>16</u> , Blk
<b>Survey</b> T-9-S, R-33-E			
Elevation 4390' GR Remarks			
			,
	ا برينځنځ		12-1/4" hole
			8-5/8"Csg.Set @ 262'
	}		Cmt.W/200 sacks (circ.)
	}	}	
	<b>\</b>	}	
	}		
	<b>}</b>		7-7/8" hole
	}		
	}	}	
	<b>}</b>	}	
	<u>}</u>		Top of cement 2830' (calc.)
	<b>(1.</b> )		
	);;; };		
	<u>{</u> ::		
	<b>}</b> ;;		
	<b>(</b> ::		
	<b>\</b>		
			4-1/2 <b>ësg.Set @</b> 4569'

Date January 3, 1985

Cmt. w/ 300 sacks

JAN 101985 C.C.D. HOSSI CAMCE

Lease Flying "M" (SA) Unit Tract	5 Well No	3 Operator Coastal Oil & Gas Corp.
Location 1977 ft.from North L	ine & 663 ft.from	West Line, Sec. 16, Blk.
<b>Sourcesy</b> <u>T-9-S, R-33-E</u> C	ounty <u>Lea</u>	State New Mexico
Elevation 4388' GR Remarks _	Spud Date 11-28-6	4.
		12-1/4" hole
		8-5/8'Csg.Set @263' Cmt.W/200 sacks (circ.)
		7-7/8" hole

4-1/2"Csg.Set @4560'

Cmt. w/300 sacks "C"

\_ Top of cement 2830' (calc.)

Date January 3, 1985

						January 3, 1985
ease Flying "M"	(SA) Unit Trac	t 6	Well No.	<u>1</u> Op	erato	or Coastal Oil & Gas Corp.
						Sec. 16 , Blk
T-9-S, R-	-33-Е	County	Lea		tate	New Mexico
levation	Remarks					
		<b>(</b> F1)	1	1 133		
					11'	" hole
		{				
					0 5/011	Csg.Set @ 400'
					0-3/0	Cmt.W/ 200 sacks (circ.
		}				Cmt.w/
		}		{		
		}		{		
		}		{		
		}		{		
		{		}	7-	7/8" hole
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		\{\bar{\}}				
		<b>\{</b>	:			
		<b>{</b> :				
		<b>\</b>				
		ξ.			,	Csg.Set @ 4593'

Cmt. w/ 200 sacks "C"

·		Date Ja	nuary 3, 1905
ease Flying "M" (SA) Unit Trace	8 Well	No. $\frac{1}{}$ Operator $\frac{C_0}{}$	astal Oil & Gas Corp.
ocation 659 ft.from South	Line & 1996 ft.	fromWest Line, Sec	.16 , Blk
T-9-S, R-33-E			
levation 4374' GR Remarks			
TEASTION WORKING			
			,
	C-1-1	1 100	
		12-1/4"	hole
	<b>}</b> ::		
	<b>         </b>		
	<b>\</b>		
	<b>[</b> ]		
	<b>\[ \}</b>	0.5/0".0==	G. A. 2001
		)	.Set @ <u>380'</u>
	<b>{  </b>	Cmt	.W/225 sacks (circ.)
	<b>}</b>	{	
	}	{	
	}	{	
	}	{	
	}	6-3/4"	hole
	}	{	
	}	Top of	cement 1664' (calc.)
	<u>}</u>	100 01	cement 1004 (care.)
		3	
	<b>\</b>		
	<b>}</b>		
	<b>\</b>		
	<b>\</b>	[3]	
	<b>(E)</b>		
	<b>{</b> };]		
	<b>5</b> 51		
		4-1/2" Csg.	Sat @ 45221
		4-1/2" Usg.	JEC 6 4333

Cmt. w/300 sacks

JAN 101985

O.C.D. HOBBS OFFICE

·		Date January 3, 1985
Lease Flying "M" (SA) Unit Tract	Well No.	3 OperatorCoastal Oil & Gas Corp.
ocation 1993 ft.from East	Line & 1998 ft.from	South Line, Sec. 16, Blk.
T-9-S, R-33-E		
Elevation 4368' GR Remarks		
Elevation 4300 GR Remains		
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	<i>t</i> <1 1	1-155
		11" hole
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	<b>}</b>	1   数
		8-5/8" Csg.Set @ 271'
	7	
	<b>}</b>	Cmt.W/200 sacks (circ.)
	<b>}</b>	13
	<b>{</b>	1}
	{	}
	<b>{</b>	13
	{	7-7/8" hole
	{	/-//o note
	<b>{</b>	<b>\}</b>
	{	13
	<b>{</b>	13
	{	}
	{	1}
	<b>{</b> ;;}	Top of cement at 3440' (calc.)
	<b>(</b>	
	<b>{</b>	
		4-1/2" Csg. Set @ 4600'

Cmt. w/200 sacks

JAN 101985

O.C.D. NOBES OFFICE Lease Flying "M" (SA) Unit

Well No. 4 Operator Coastal Oil & Gas Corp.

Location 660 ft.from West Line & 659 ft.from South Line, Sec. 16 , Blk.

STATUTE T-9-S, R-33-E

County Lea

State New Mexico

Elevation 4384' GR Remarks Original TD 9400', completed in Bough "C". Completed in San

Andres on 7-14-66. Converted to injection 1-14-73. Temporarily abandoned January, 1983. Will

be P&A early 1985.

17-1/2" hole

13-3/8t sg.Set @ 340'

Cmt.W/ 350 sacks (circ.)

11" hole

Top of cement 2260' (calc.)

Original TD 9400'. Had 5-1/2" csg. set at 9400' and cemented w/300 sacks. est. top of cement 8000'. Later slugged back as follows:

25 sacks at 9265' (perfs)

25 sacks at 7861' (5-1/2" csg. stub)

25 sacks at 6500'

25 sacks at 5100'

27 sacks at 4700'

38 at 4333' (in 8-5/8" csg.)

In 1983: Spotted 50 sack plug at 4248-4378'. Cagged plug. Well SI.

Cmt. w/450 sacks

8-5/8" Csg.Set @ 4599'

7-7/8" hole 5-1/2" csg. set at 9400'. Cemented w/300 sacks.

JAN 10 1985

O.C.S. HOBBS Office ý