



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

6-27-89

POST OFFICE BOX 1980  
HOBBS, NEW MEXICO 88241-1980  
(505) 393-6161

GARREY CARRUTHERS  
GOVERNOR

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

RECEIVED

JUN 30 1989

OIL CONSERVATION DIV.  
SANTA FE

RE: Proposed:

MC \_\_\_\_\_  
DHC \_\_\_\_\_  
NSL \_\_\_\_\_  
NSP \_\_\_\_\_  
SWD X \_\_\_\_\_  
WFX \_\_\_\_\_  
PMX \_\_\_\_\_

Gentlemen:

I have examined the application for the:

Coastal Oil & Gas Corp. Marr #1-P 33-9-37  
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton  
Supervisor, District 1

/ed



**Coastal**

The Energy People

16 September, 1992

State of New Mexico  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

Re: P. Marr #1-33  
T9S-R33E, Sec. 33  
Lea Co., New Mexico

Gentlemen:

Attached are duplicate copies of the New Mexico Oil Conservation's Form C-108 "Application for Authorization to Inject" on behalf of Coastal Oil and Gas Corporation with regard to the above-referenced property. This form is being resubmitted, having been previously approved by the New Mexico Oil Conservation Division to be converted for use as a salt water disposal well. The well was not converted to injection at the date of approval and we are currently in the process of re-permitting. Administrative approval of this application is being requested.

Notice has been given by publication to the general public and by registered mail to the following individuals/corporations:

Earl Bruno, Inc.; Bison Petroleum Corporation; and Agnes E. Kelso, Calvin H. Lewis, and Raymond M. Lewis.

The notifications advise any/all parties to file any objections within 15 days of this application, to the following:

State of New Mexico  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, New Mexico 87504

If you should have any questions or comments concerning this matter, please advise Bobby Smith, the project engineer in Midland, Texas, (915-682-7925), or H. E. Clarke, District Operations Manager in Oklahoma City, OK (405-239-7031).

Respectfully,

*H. E. Clarke*

H. E. Clarke  
District Operations Manager

HEC:glc  
Encls:  
CC: file

**Coastal Oil & Gas Corporation**

A SUBSIDIARY OF THE COASTAL CORPORATION

211 NORTH ROBINSON • ONE LEADERSHIP SQUARE STE 1700 • OKLAHOMA CITY OK 73102 • 405 239-7031

SWD 372  
7-26-89

## APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage  
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: Coastal Oil & Gas Corporation  
Address: 211 N. Robinson, One Leadership Square, Suite 1700, Oklahoma City, OK 73102  
Contact party: H. E. Clarke Phone: 405 239-7031
- 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 ☒ 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:
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/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.
- \* 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 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 Sr. Petroleum Engineer  
Signature: \_\_\_\_\_ Date: August 31, 1992
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the 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:

- (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 an 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, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

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

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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.

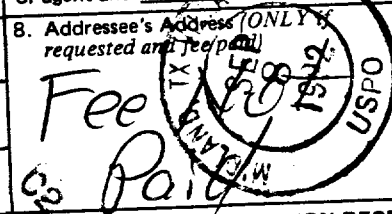
Pearl Marr #1  
C-108 Application

- VII.
1. The proposed average rate of injection into the Marr #1 well will be 350 BWPd. The maximum anticipated rate is 350 BOPd.
  2. This will be a closed system.
  3. The proposed average injection pressure is 1000 psi and the maximum anticipated pressure is 1200 psi.
  4. All injected fluid will be produced water from this same formation.
  5. All injected fluid will be produced water from this same formation.
- VIII.
- The recommended zone of injection for disposal purposes is the San Andres Dolomite from 4985-5-40' OA. The Slaughter Zone is a dense to porous dolomite with occasional vertical fracturing. The porosity is vugular to intercrystalline.
- The geologic name and depth to underground source of drinking water is the Ogallala Formation at 400'.
- IX.
- No stimulation program is planned at this time. If one appears to be necessary, it will consist of approximately 3000 gallons of 20% NEFE HCl acid.
- X.
- Logs have been previously submitted on this well. For your convenience a copy of a GR-Neutron Log section is attached.
- XI.
- We have examined all available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the proposed disposal zone and any source of drinking water in the area.
- XII.
- Attached are copies of the registered mail receipts from the notification of application to offset operators and the surface owner at the proposed salt water disposal well location. Also enclosed is a photocopy of the Affidavit of Publication and a copy of the Legal Notice as it appeared in the Hobbs News Sun 08/23/92.

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery  
↑(Extra charge)↑ ↑(Extra charge)↑

3. Article Addressed to:  <div style="text-align: center;">Earl Bruno, Inc. P.O. Box 5456 Midland, Texas 79704</div>	4. Article Number  Type of Service: <input checked="" type="checkbox"/> Registered <span style="margin-left: 40px;"><input type="checkbox"/> Insured</span> <input type="checkbox"/> Certified <span style="margin-left: 40px;"><input type="checkbox"/> COD</span> <input type="checkbox"/> Express Mail  Always obtain signature of addressee or agent and <b>DATE DELIVERED</b> .
5. Signature - Addressee <input checked="" type="checkbox"/>	8. Addressee's Address (ONLY if requested and fee paid)  <div style="text-align: center;">  </div>
6. Signature - Agent <i>Pam Adams</i>	
7. Date of Delivery <i>8-2</i>	

Form 3811, Mar. 1987 \* U.S.G.P.O. 1987-78-268 **DOMESTIC RETURN RECEIPT**

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to:  Ms. Agnes E. Leoso, Mr. Calvin H. Lewis & Mr. Raymond Lewis P.O. Box 123 Bledsoe, Texas 79314  <i>Joe Lewis</i>	4. Article Number <div style="text-align: center;">713 992 068</div> Type of Service: <input type="checkbox"/> Registered <span style="margin-left: 40px;"><input type="checkbox"/> Insured</span> <input checked="" type="checkbox"/> Certified <span style="margin-left: 40px;"><input type="checkbox"/> COD</span> <input type="checkbox"/> Express Mail  Always obtain signature of addressee or agent and <b>DATE DELIVERED</b> .
5. Signature - Addressee <input checked="" type="checkbox"/>	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent <input checked="" type="checkbox"/>	
7. Date of Delivery <div style="text-align: center;">09-04-92</div>	

PS Form 3811, Feb. 1986 **DOMESTIC RETURN RECEIPT**

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.

Put your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☒ Show to whom delivered, date, and addressee's address. 2. ☐ Restricted Delivery.

3. Article Addressed to:  Bison Petroleum Corporation 5809 S. Western, Suite #200 Amarillo, Texas 79110	4. Article Number <div style="text-align: center;">P 713 992 283</div> Type of Service: <input type="checkbox"/> Registered <span style="margin-left: 40px;"><input type="checkbox"/> Insured</span> <input checked="" type="checkbox"/> Certified <span style="margin-left: 40px;"><input type="checkbox"/> COD</span> <input type="checkbox"/> Express Mail  Always obtain signature of addressee or agent and <b>DATE DELIVERED</b> .
5. Signature - Addressee <input checked="" type="checkbox"/>	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent <i>Andre Scott</i>	
7. Date of Delivery <div style="text-align: center;">9-7-92</div>	

PS Form 3811, Feb. 1986 **DOMESTIC RETURN RECEIPT**

## AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

Kathi Bearden

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period

of \_\_\_\_\_

one weeks.  
Beginning with the issue dated

August 23, 1992  
and ending with the issue dated

August 23, 1992

Kathi Bearden  
General Manager

Sworn and subscribed to before

me this \_\_\_\_\_ day of

\_\_\_\_\_, 19\_\_\_\_

Notary Public.

My Commission expires \_\_\_\_\_

February 14, 1995

(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

Post-It™ brand fax transmittal memo 7671

# of pages •

1

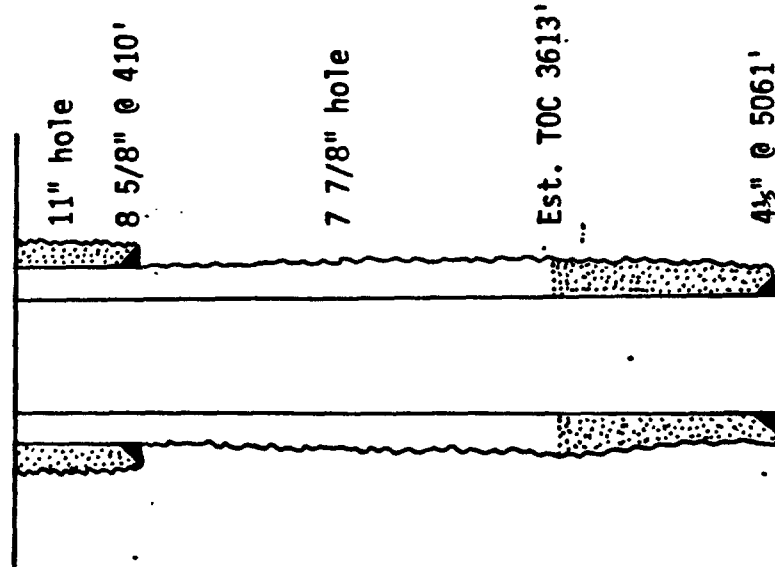
To <u>Bobby Smith</u>	From <u>Paula</u>
Co. _____	Co. <u>Hobbs News-Sun</u>
Dept. _____	Phone # _____
Fax # <u>205-270-5955</u>	Fax # <u>205-270-5955</u>

## LEGAL NOTICE

August 23, 1992

Coastal Oil & Gas Corporation has applied for approval to convert the Marr #1 well to a salt water disposal well for the purpose of injecting produced San Andres water. This well is located 660' FSL and 660' FEL of Section 33.T9S-R37E in Lea County, New Mexico. Water is to be injected into the San Andres formation at a depth of 4985'-6080'. Maximum anticipated injection pressure is 2000 psi and maximum anticipated rate is 500 BWPD. Questions pertaining to this application should be directed to Coastal Oil & Gas Corporation, P.O. Box 235, Midland, Texas 79702, (915) 682-7925, Attn: S.L. Smith. Objections to this application should be directed to the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87504.

Coastal Oil & Gas Corporation	Marr		
OPERATOR	LEASE		
1	660' FS&EL	33	37-E
WELL NO.	FOOTAGE LOCATION	SECTION	RANGE
		TOWNSHIP	

SchematicTabular Data

<u>Surface Casing</u>	
Size 8 5/8"	Cemented with 350 ex.
TOC Surface	feet determined by Visual
Hole size 11"	
<u>Intermediate Casing</u>	
Size "	Cemented with ex.
TOC	feet determined by
Hole size	
<u>Long string</u>	
Size 4 1/2"	Cemented with 250 ex.
TOC 3613'	feet determined by Calculation
Hole size 7 7/8"	
Total depth 5061'	
<u>Injection Interval</u>	
5038 feet to	5050 feet &
4985 feet to	5020 feet
(perforated or open-hole, indicate which)	



Tubing size 2 3/8" 4.7#/ft lined with Salta PVC (material) set in a

Baker AD-1 (brand and model) packer at 4935 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (if applicable) Sawyer San Andres, West

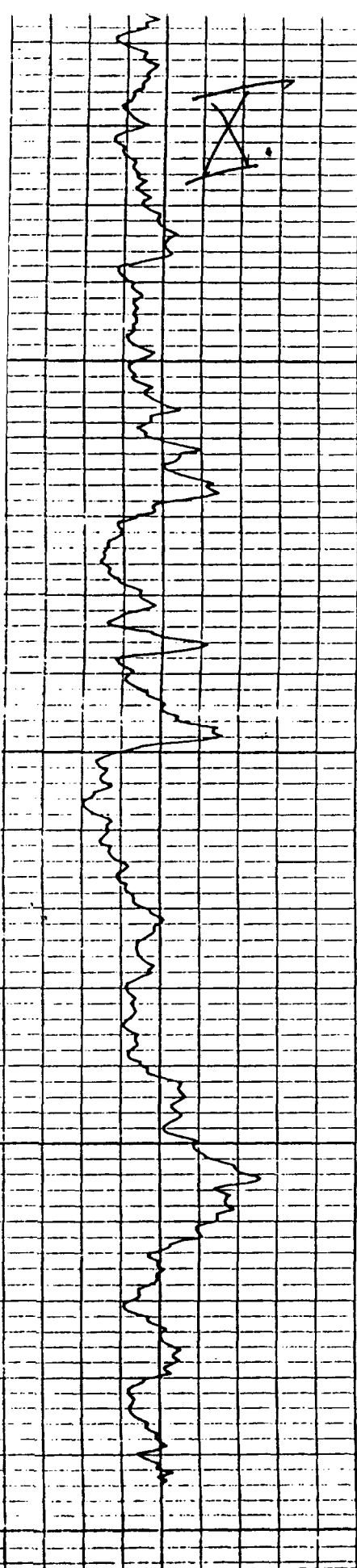
3. Is this a new well drilled for injection? ☐ Yes ☒ No

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 perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) No

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.

All wells in the area are San Andres producers or injectors.



4900

Marr #1  
P, 33-9-37

5000

GR-Neutron

Slaughter

4964

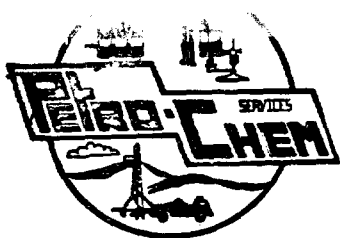
API 80 API

300 API

2300 API

8 API/CD

100 API/CD



# JUN 7 1989 PETRO-CHEM SERVICES CORP.

P. O. BOX 10160

MIDLAND, TEXAS 79702

(915) 682-5025

JUN 9

## API WATER ANALYSIS REPORT FORM

Company <b>COASTAL OIL &amp; GAS CORP.</b>		Sample No.		Date Sampled <b>05/31/89</b>	
Field <b>SAWYER</b>		Legal Description		County or Parish	
Lease or Unit		Well <b>FRESH #1</b>		Depth	
Type of Water (Produced, Supply, etc.)		Formation		Water, B/D	
Sampling Point		Sampled By			

### DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	1088.3	47.3
Calcium, Ca	200.5	10.0
Magnesium, Mg	145.8	11.9
Barium, Ba		

### ANIONS

Chloride, Cl	2002.2	56.4
Sulfate, SO <sub>4</sub>	475.0	9.89
Carbonate, CO <sub>3</sub>		
Bicarbonate, HCO <sub>3</sub>	183.0	3.0

Total Dissolved Solids (calc.)

4094.8

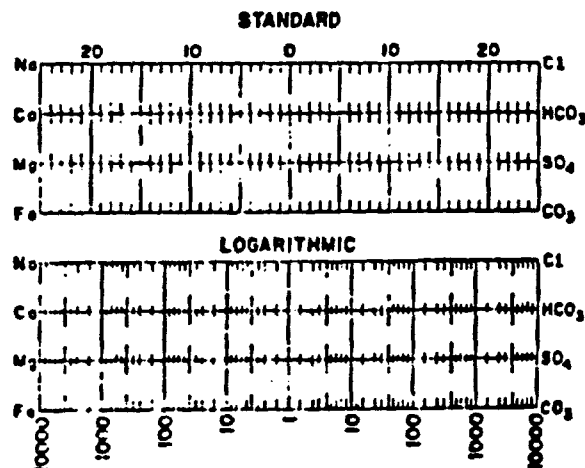
Iron, Fe (total)

Sulfide, as H<sub>2</sub>S

### OTHER PROPERTIES

pH	7.15
Specific Gravity, 60/60 F.	1.000
Resistivity (ohm-meters) 77° F.	7.0
Total Hardness, CaCO <sub>3</sub>	
Total Alkalinity, CaCO <sub>3</sub>	
Supersaturation, CaCO <sub>3</sub>	

### WATER PATTERNS — me/l



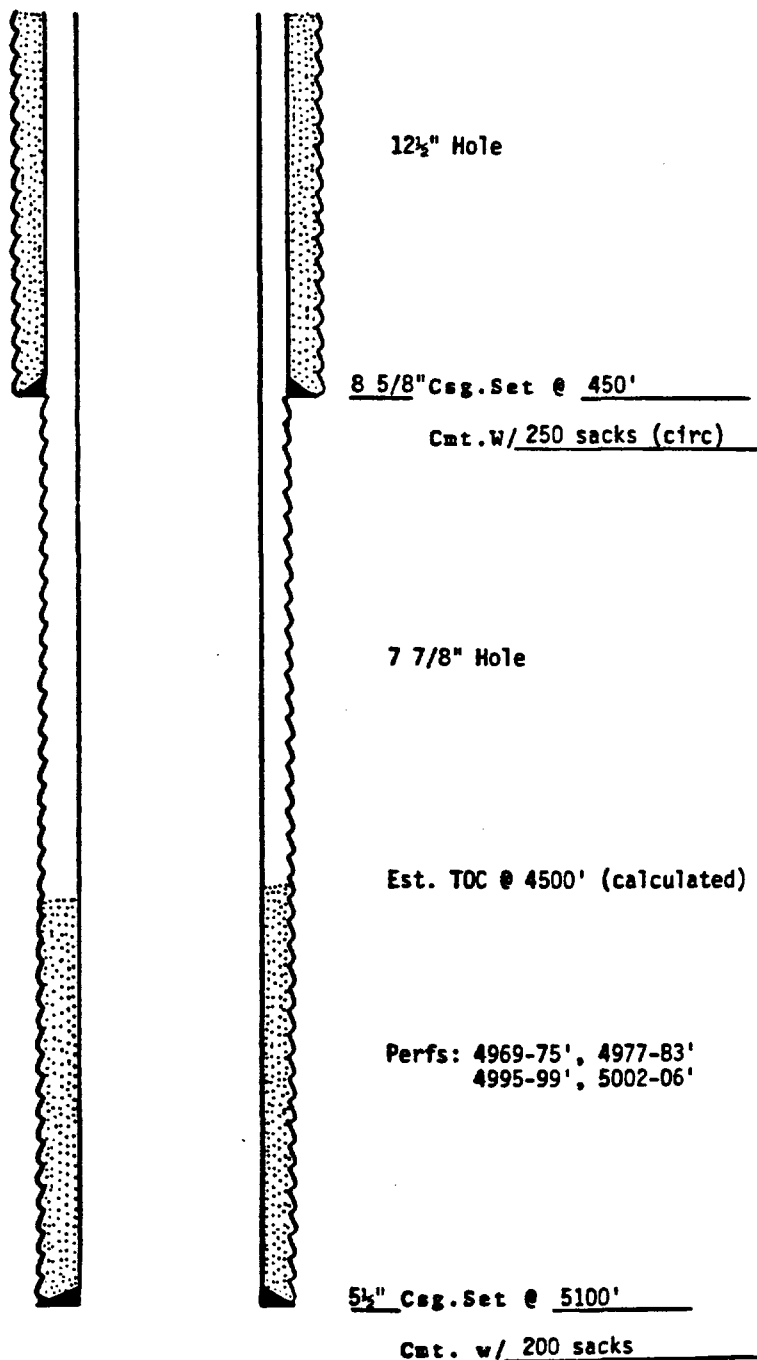
### REMARKS & RECOMMENDATIONS:

SLIGHT CORROSION

NO SCALE

Date May 25, 1989  
Lease Susco 3 State Well No. 1 Operator Bison Petroleum Corp.  
Location 660 ft. from North Line & 460 ft. from West Line, Sec. 3, 30N.  
Survey T-10-S, R-37-E County Lea State New Mexico  
Elevation 3967.2 GR Remarks Spud Date: 11-24-81

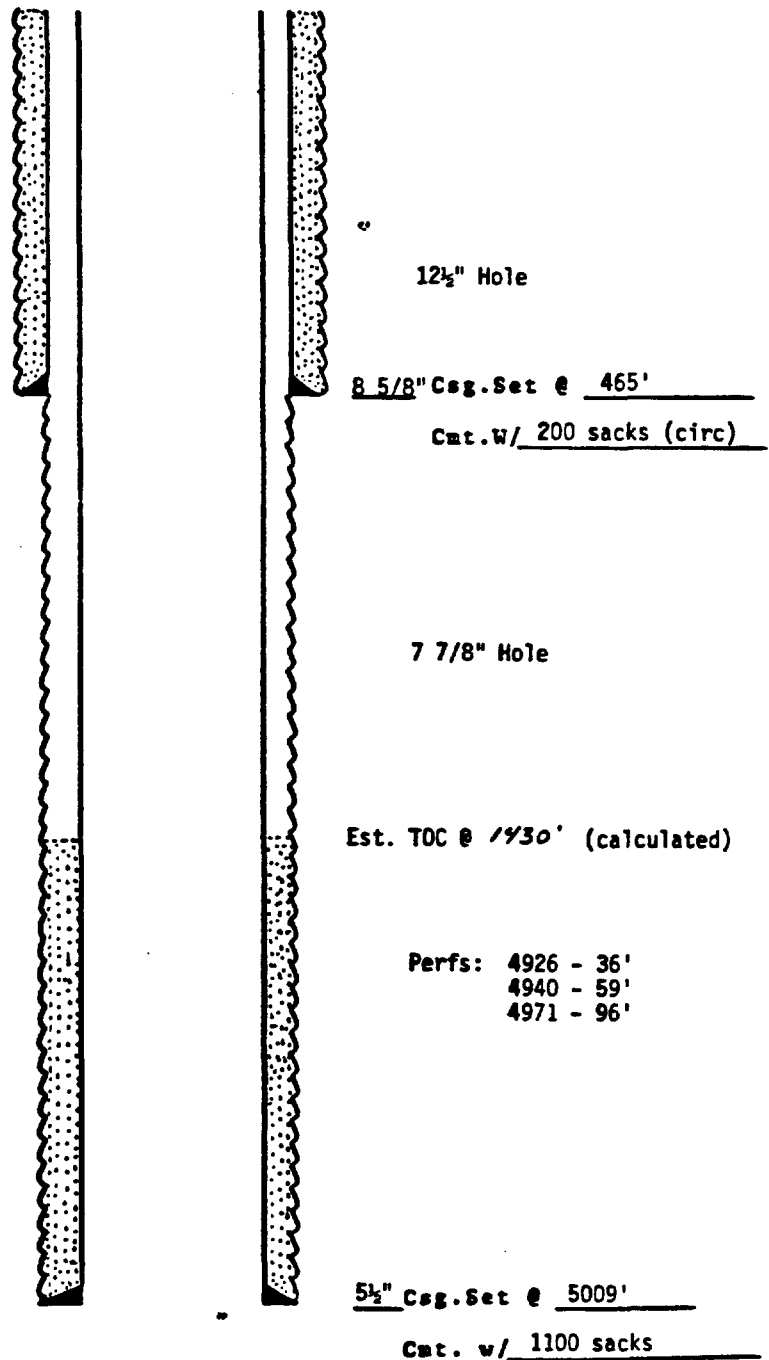
STATUS  
Active Oil Producer



Date May 25, 1989

Lease Santa Fe Well No. 6 Operator Coastal Oil & Gas Corp.  
Location 560 ft. from South Line & 1980 ft. from East Line, Sec. 33, R1k.  
~~Survey~~ T-9-S, R-37-E County Lea State New Mexico  
Elevation 3952' GR Remarks Spud Date: 9-25-81

STATUS  
Active Oil Producer



Date May 25, 1989

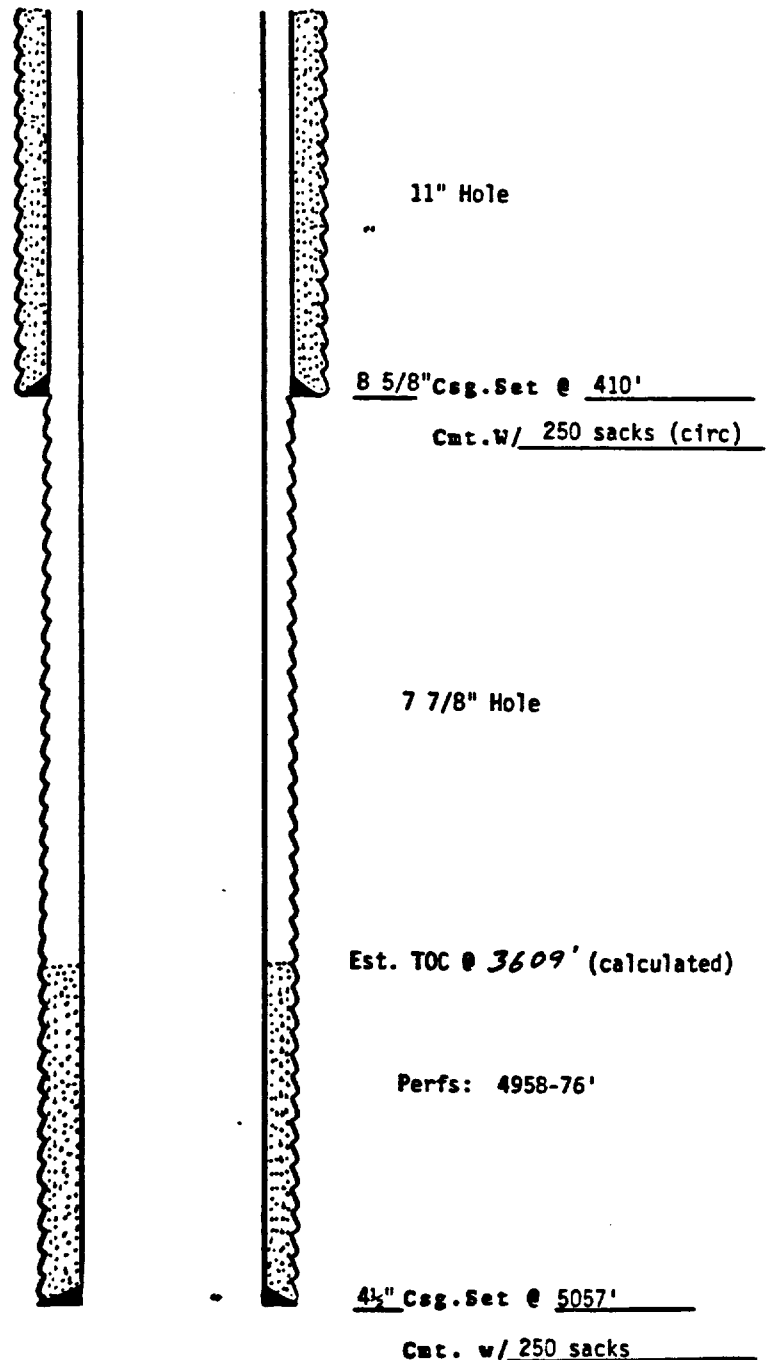
Lease Sawyer State "4" Well No. 1 Operator Coastal Oil & Gas Corp.

Location 660 ft. from North Line & 1980 ft. from East Line, Sec. 4, T1k.

~~Sawyer~~ T-10-S, R-37-E County Lea State New Mexico

Elevation 3966.7' SR Remarks Spud Date: 6-2-69

STATUS  
Active Oil Producer



Date May 25, 1989

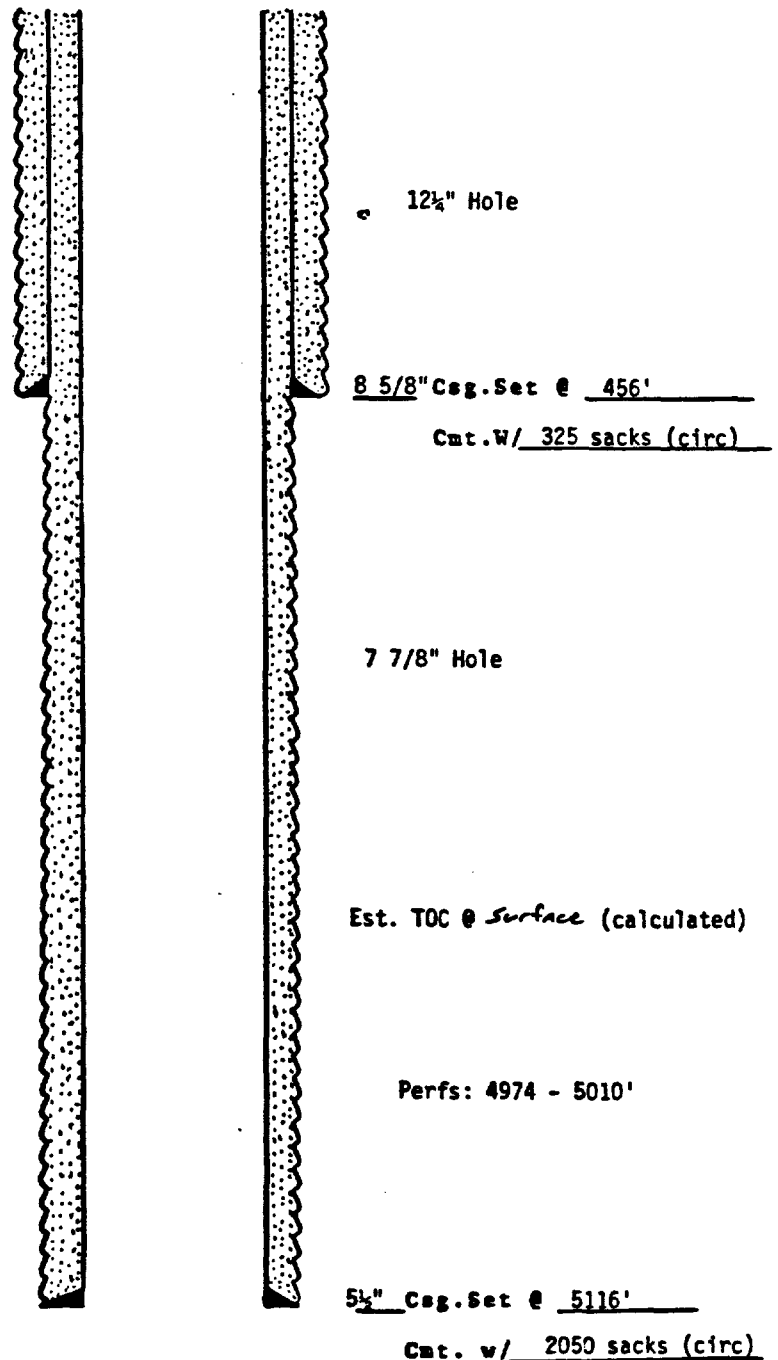
Lease Sawyer State "4" Well No. 2 Operator Coastal Oil & Gas Corp.

Location 660 ft. from North Line & 660 ft. from East Line, Sec. 4, Blk.

~~Survey~~ T-10-S, R-37-E County Lea State New Mexico

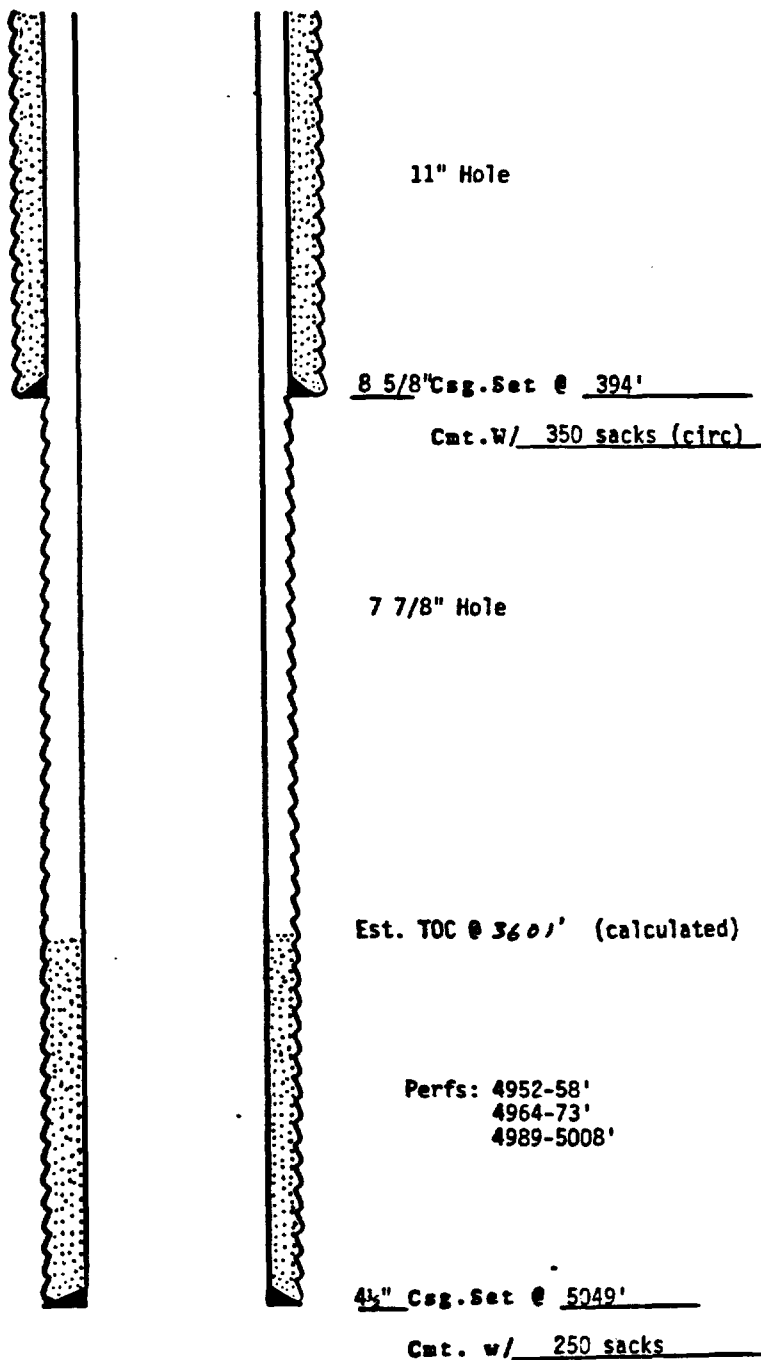
Elevation 3983' GR Remarks Spud Date: 6-12-81

STATUS  
Active Oil Producer



Date May 25, 1989  
Lease Santa Fe Well No. 4 Operator Coastal Oil & Gas Corp.  
Location 1980 ft. from North Line & 660 ft. from East Line, Sec. 33, Tkk.  
Survey T-9-S, R-37-E County Lea State New Mexico  
Elevation 3977' GR Remarks Spud Date: 12-16-69

STATUS  
Active Oil Producer





Date May 25, 1989

Lease Marr Well No. 4 Operator Coastal Oil & Gas Corp.

Location 660 ft. from South Line & 660 ft. from West Line, Sec. 34, T1k.

~~XXXXXX~~ Survey T-9-S, R-37-E County Lea State New Mexico

Elevation 3975' GR Remarks Spud Date: 5-18-81

STATUS  
Active Oil Producer



12 1/4" Hole

8 5/8" Csg. Set @ 472'

Cmt. w/ 275 sacks (circ)

7 7/8" Hole

Est. TOC @ *Surface* (calculated)

Perfs: 4965 - 72'  
4980 - 96'  
5000 - 12'  
5030 - 46'

5 1/2" Csg. Set @ 5104'

Cmt. w/ 1375 sacks (circ)

Date May 25, 1989

Lease Marr Well No. 3 Operator Coastal Oil & Gas Corp.

Location 1980 ft. from South Line & 660 ft. from East Line, Sec. 33, T-9-S, R-37-E

County Lea State New Mexico

Elevation 3990.2' GR Remarks Spud Date: 5-17-78

**STATUS**  
Active Oil Producer



12 1/4" Hole

8 5/8" Csg. Set @ 447'

Cnt. w/ 250 sacks (circ)

DV Tool @ 2087' (700 sq.-circ)

7 7/8" Hole

Est TOC @ 3651' (calculated)

Perfs: 4977 - 83'  
4991 - 99'  
5018 - 36'

5 1/2" Csg. Set @ 5099'

Cnt. w/ 250 sacks

Date May 25, 1989

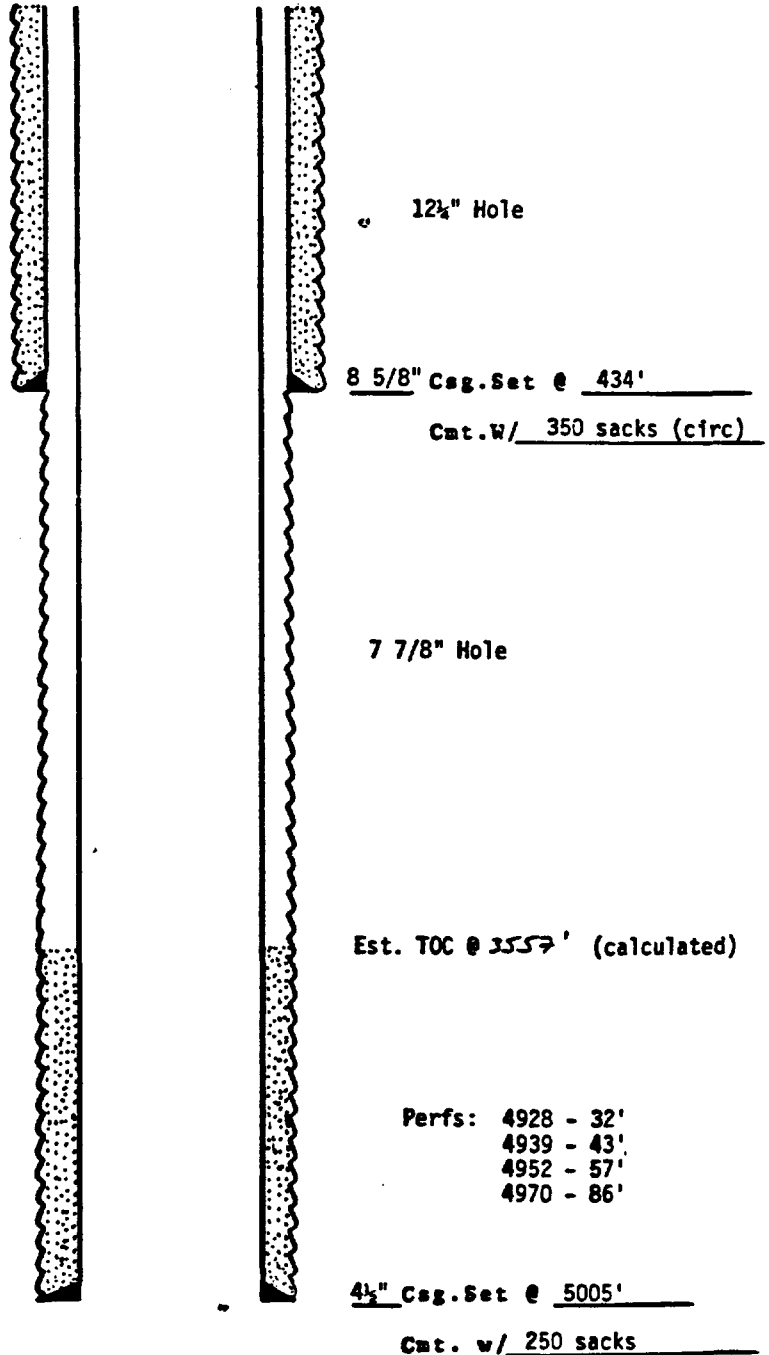
Lease Santa Fe Well No. 3 Operator Coastal Oil & Gas Corp.

Location 1805 ft. from South Line & 1980 ft. from East Line, Sec. 33, Bk.

~~Survey~~ T-9-S, R-37-E County Lea State New Mexico

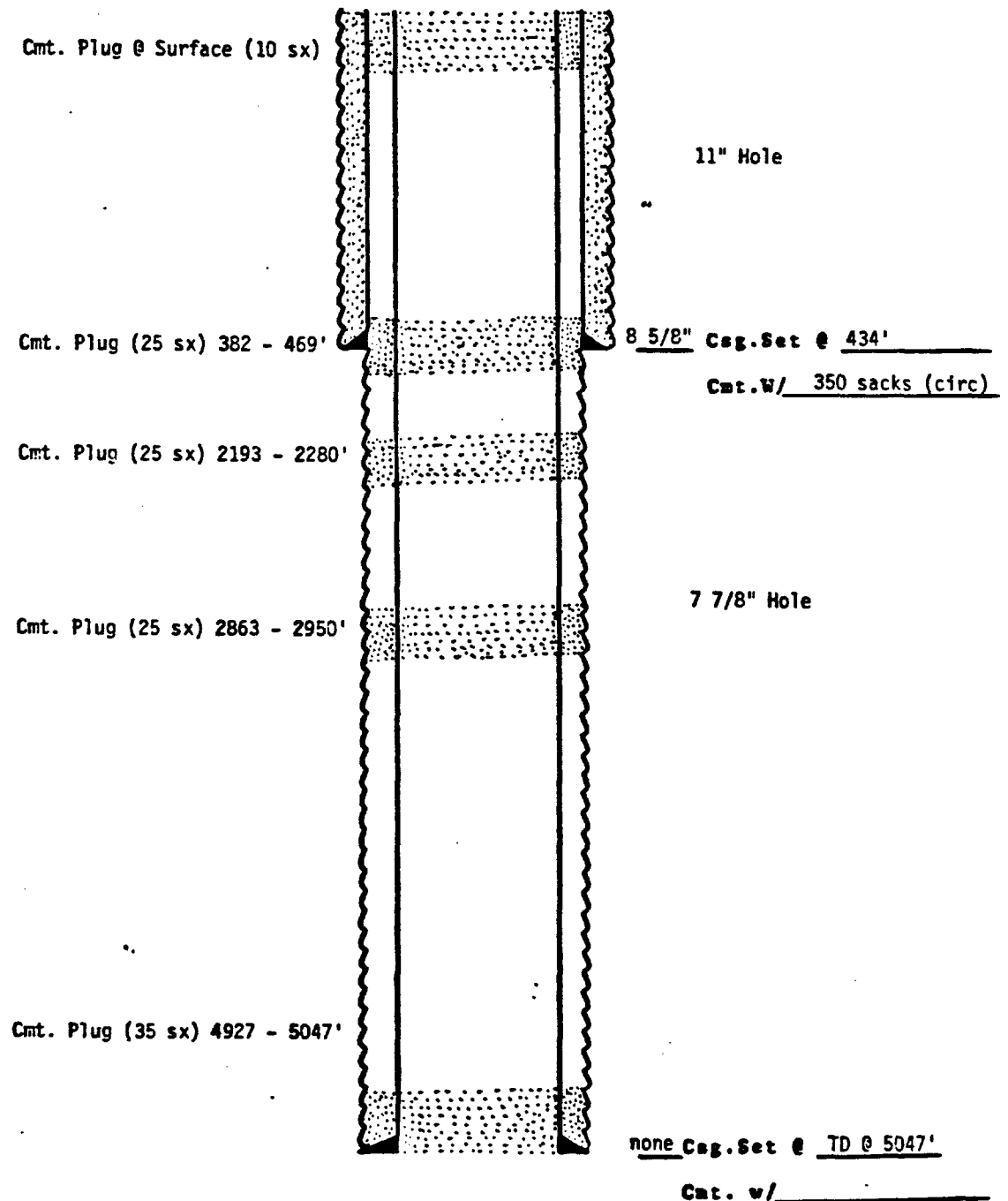
Elevation 3954.2' GR Remarks Spud: 10-4-69

STATUS  
Active Oil Producer



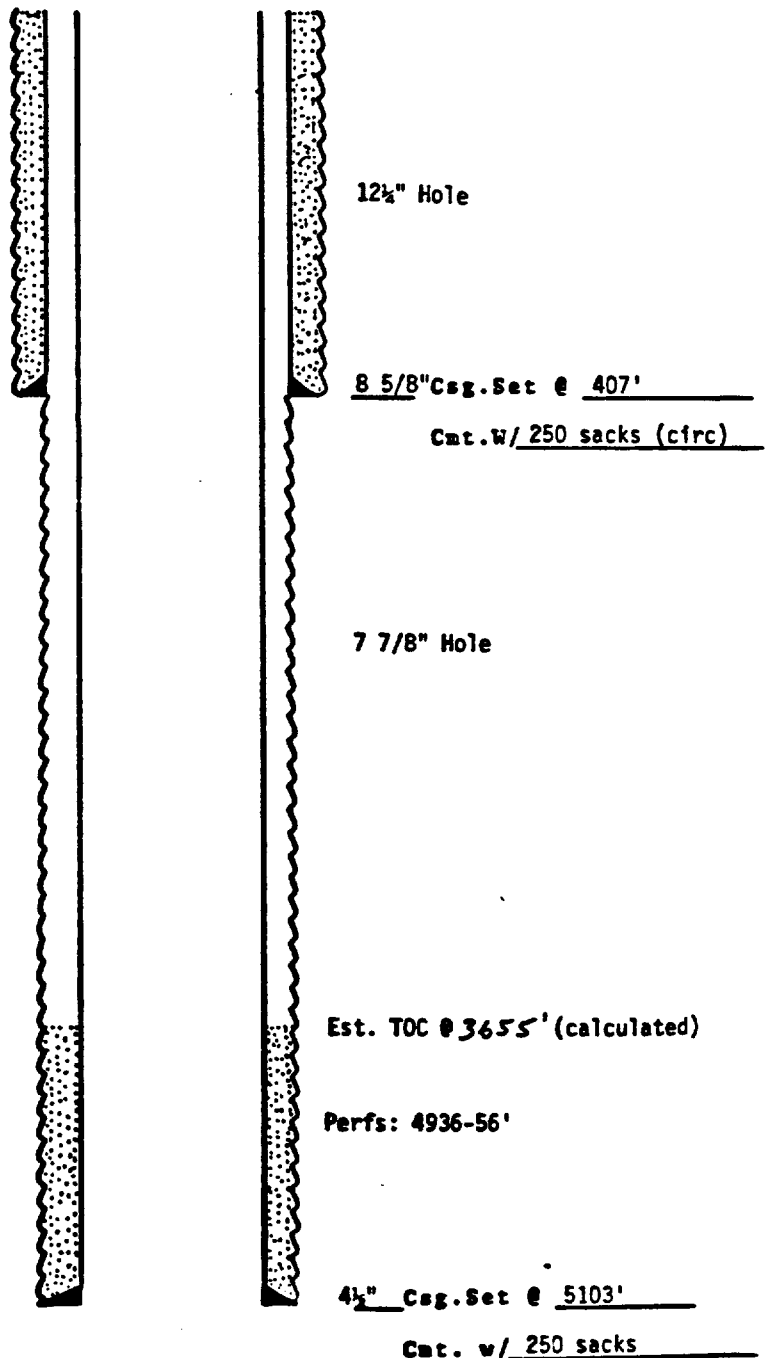
Date May 25, 1989  
Lease Marr Well No. 2 Operator Coastal Oil & Gas Corp.  
Location 660 ft. from South Line & 1780 ft. from West Line, Sec. 34, Bld.  
Survey T-9-S, R-37-E County Lea State New Mexico  
Elevation 3970.8' GR Remarks Spud Date: 2-10-71

STATUS  
Dry & Abandoned



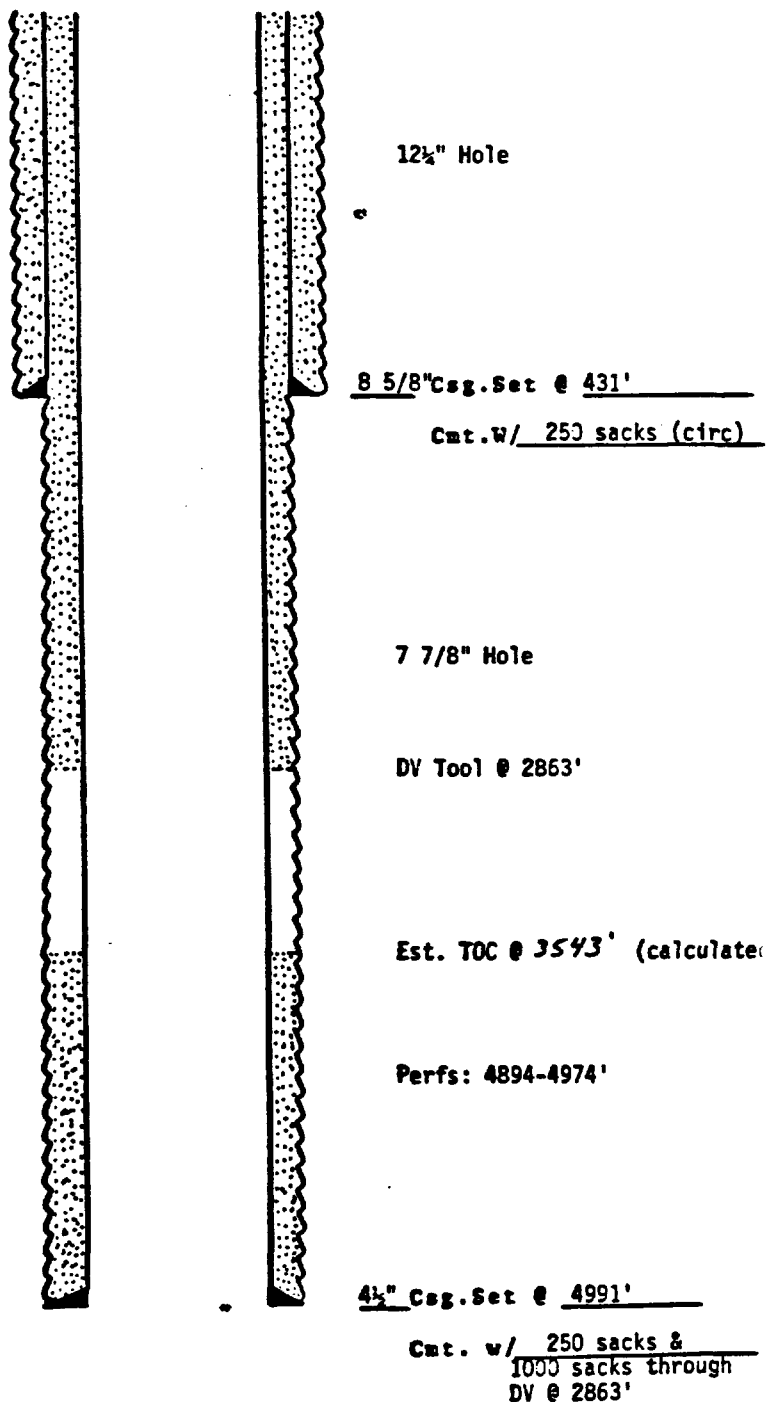
Date May 25, 1989  
Lease SFPRR Well No. 1 Operator Earl R. Bruno  
Location 660 ft. from South Line & 1980 ft. from West Line, Sec. 33,  
Survey T-9-S, R-37-E Unit "N" County Lea State New Mexico  
Elevation 3968' KB Remarks Spud Date: 3-9-70

STATUS  
Active Oil Producer



Date May 25, 1989  
Lease SFPRR Well No. 23 Operator Earl R. Bruno  
Location 1798 ft. from South Line & 2062 ft. from West Line, Sec. 33,  
Survey T-9-S, R-37-E Unit "K" County Lea State New Mexico  
Elevation 3967' KB Remarks Spud Date: 9-18-77

STATUS  
Active Oil Producer



Date May 25, 1989  
Lease Rich Unit Well No. 1 Operator Earl R. Bruno  
Partners, L.P.  
Location 1980 ft. from South Line & 560 ft. from West Line, Sec. 34,  
Survey T-9-S, R-37-E Unit "L" County Lea State New Mexico  
Elevation 3996' KB Remarks Spud Date: 5-19-70

STATUS  
Active Oil Producer

