



Coastal Oil & Gas Corporation
a subsidiary of The Coastal Corporation

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

915/682-7925

February 12, 1985

New Mexico Oil Conservation
Commission
P. O. Box 1980
Hobbs, New Mexico 88240

code 9524

Dear Gentlemen:

Please find enclosed a copy of Form C-108, Application for Authorization to Inject, concerning our Federal "20" #1 well located in the SE/4 of Section 20, T-13-S, R-33-E in Lea County, New Mexico. We propose to convert this temporarily abandoned well to a Salt Water Disposal Well, thru perms in the Bough "C" Formation.

If additional information concerning this application is needed, please feel free to contact our Midland office.

Sincerely,

Bobby L. Smith

Bobby L. Smith
Petroleum Engineer
Coastal Oil & Gas Corporation

BLS:sjb

RECEIVED

FEB 14 1985

**G.C.D.
HOBBS OFFICE**

Case 8524

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: 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? ☐ 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: Petroleum Engineer
Signature: Bobby L. Smith Date: February 11, 1985
- * 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 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 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.

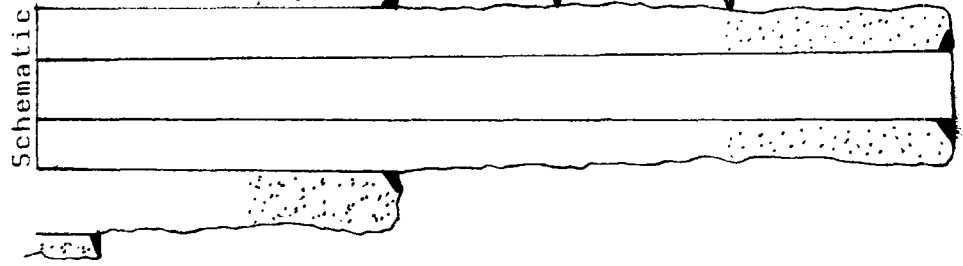
NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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.

INJECTION WELL DATA SHEET

SIDE 1

Coastal Oil & Gas Corporation
 OPERATOR
 Federal "20"
 LEASE
 1 WELL NO. 20 SECTION 13-S TOWNSHIP 33-E RANGE
 FOOTAGE LOCATION



Tabular Data

13 3/8" csg @ 387' Surface Casing
 Size 13 3/8" Cemented with 375 sx.
 TOC Surface feet determined by visual
 Hole size 17 1/2"
 Est TOC @ 2880'
 11" hole
 Intermediate Casing
 Size 8 5/8" Cemented with 300 sx.
 TOC 2880 feet determined by calculation
 Hole size 11" (TOC calculated based on 12" hole)
 Long string
 Size 5 1/2" Cemented with 250 X 1.43 sx.
 TOC 8280 feet determined by calculation
 Hole size 7 7/8"
 Total depth 9840'

Injection interval Bough "C"
 5 1/2" csg @ 9840'
 9738 feet to 9800 feet
 (perforated or open-hole, indicate which)

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INJECTION WELL DATA SHEET -- SIDE 2

Tubing size 2 7/8" lined with Fiberglass Tubing w/Seal Assembly set in a
(material)

Baker "F-1" packer at 9650' feet
(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Bough "C" (Penn)

2. Name of Field or Pool (if applicable) Baum (U. Penn)

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) Intervals to be perforated are 9738'-57' and 9787'-9800'

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Not aware of any other productive zones in this area.

VII.

- 1) The anticipated average injection rate is 1200 BWPD and the anticipated maximum injection rate is 1500 BWPD.
- 2) This is a closed system.
- 3) Anticipated average injection pressure is 500 psi. The maximum anticipated injection pressure is 1500 psi.
- 4) All injected water will be Penn produced water, i.e., reinjected produced water.
- 5) NA, zone is productive of oil within one mile of the proposed well.

VIII. The proposed injection zone is designated the Bough "C". The lithology consists of a phylloid algal limestone interbedded with thin layers of shale. The Bough "C" is a Cisco age rock found at approximately 9730' and is 120' to 150' thick. The Ogallala is the only source of drinking water in the area and the base is found at approximately 300 feet.

IX. The stimulation program will be a relatively small volume matrix acid job, on the order of 3000-5000 gallons of 15% HCl.

X. This well was originally completed in 1968. I assume logs were sent to the Oil Conservation Division at that time.

XI. There are no known fresh water wells within one mile of this proposed SWD well.

XII. There are no known faults or other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. "Proof of Notice".

Copies of the return receipts will be sent as soon as they are returned. The C-108 applications were mailed to offset lease holders and the surface owner of record on February 12, 1985, via certified mail. Additionally, the affidavit of publication will be sent as soon as it is received. The legal advertisement was scheduled to run February 11, 1985. If additional information is needed, please advise.

Well Status Active Producer Date 2-8-85

Lease NM "DM" State NCT-2 Well No. 1 Operator Texaco, Inc.

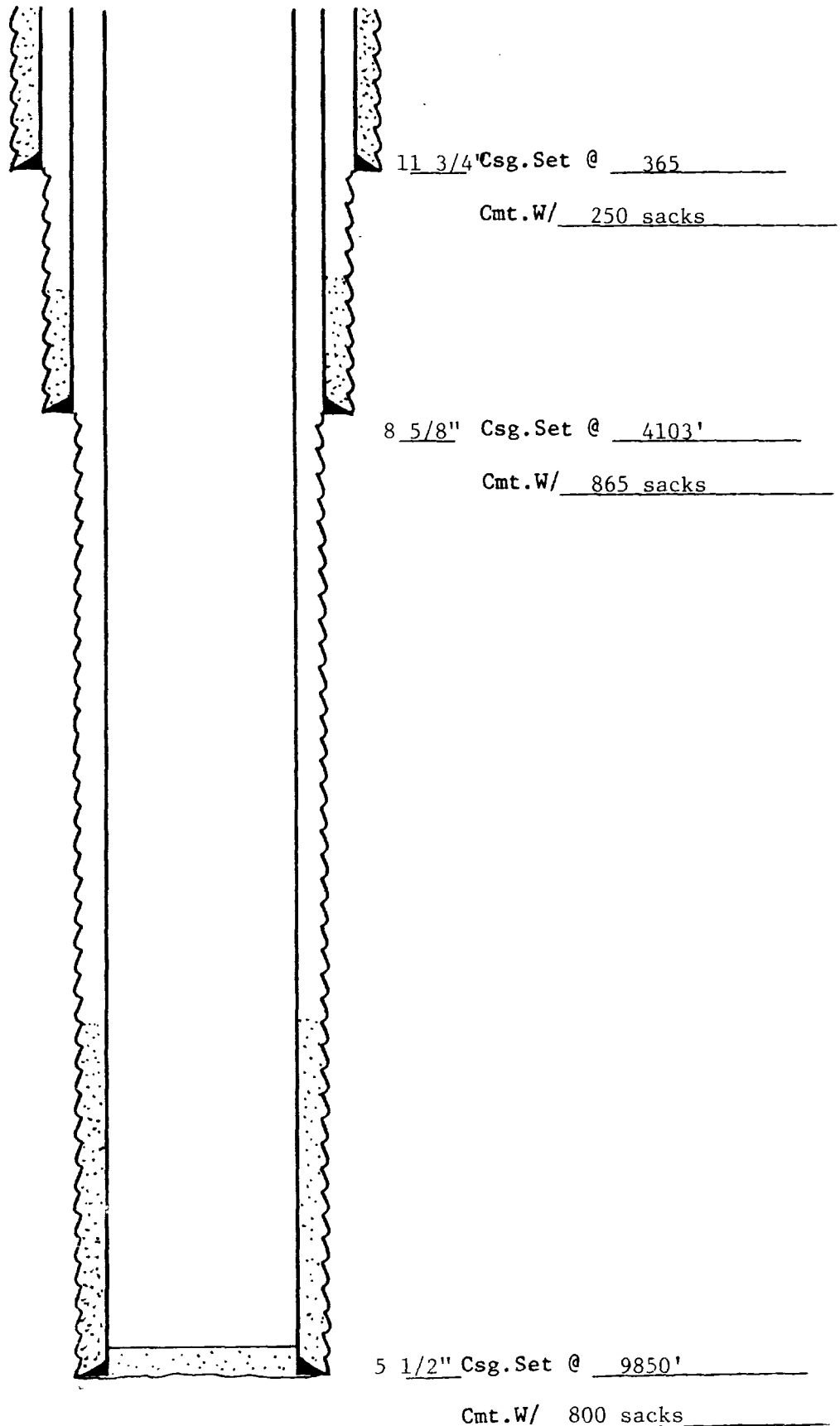
Location 1980 ft. from North Line & 330 ft from West Line, Sec, 21, Unit E

Survey T-13-S, R-33-E County Lea State NM

Elevation _____ Remarks Well is just outside "area of review". IP thru perfs

9734'-40'. F 309 BO X 19 BW. 1984 Avg Monthly Prod thru September was 127 BO X 5076 BW.

1983 Avg. Monthly was 176 BO X 3728 BW.



Well Status Active SWD Date 2-8-85

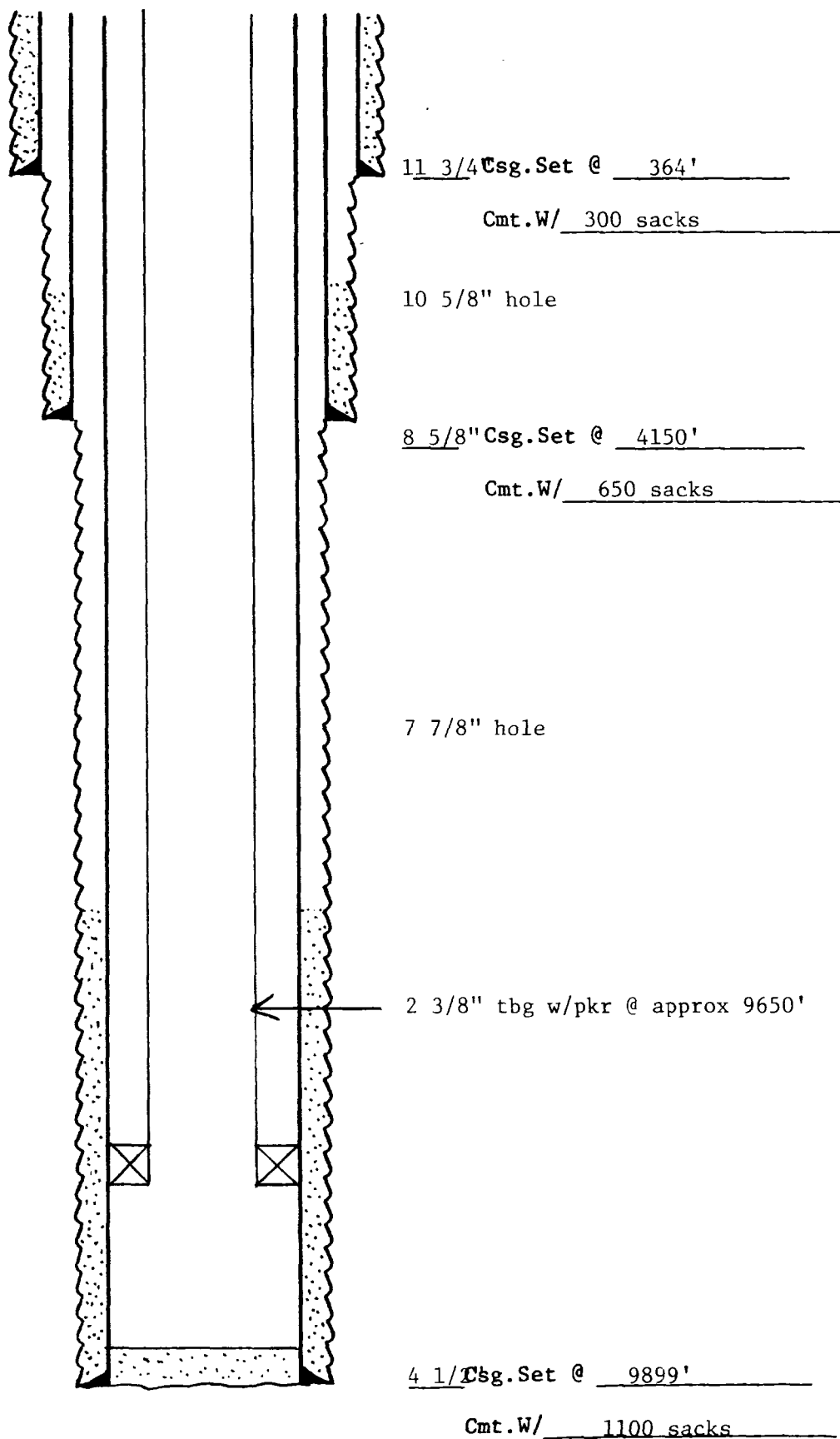
Lease NM "DM" State NCT-1 Well No. 1 Operator Texaco, Inc.

Location 660 ft. from South Line & 1980 ft from West Line, Sec, 21, Unit N

Survey T-13-S, R-33-E County Lea State NM

Elevation _____ Remarks Spud date 11-15-67. IP thru perfs 9742'-92'. Flwg 445

BOPD X 149 BW. Conv to SWD 9-12-75.



Well Status P & A Date 9-18-76

Lease NM "DM" State NCT-1 Well No. 2 Operator Texaco

Location 990 ft. from South Line & 660 ft from West Line, Sec, 21, Unit M

Survey T-13-S, R-33-E County Lea State NM

Elevation _____ Remarks Spud Date 1-16-70. Well drilled for oil production.

IP 32 BOPD X 307 BWPD.

10 sack surface plug

40 sack plug 400'-300'

Cut 8 5/8" csg at 877'

40 sack plug 1767-1667'

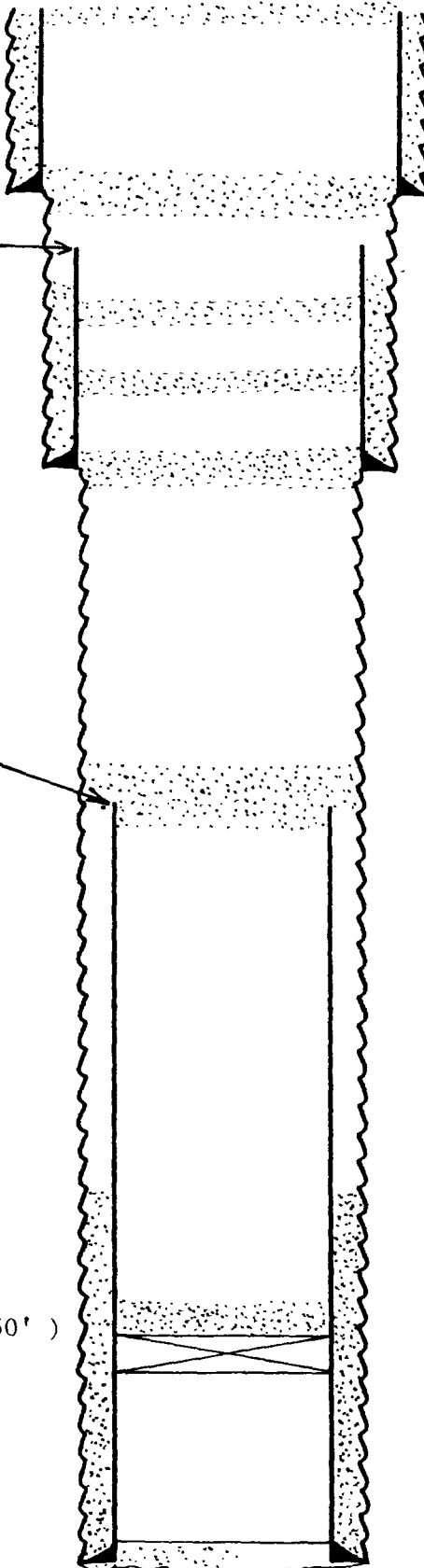
40 sack plug 2418'-2318'

40 sack plug 4195'-4095'

Cut 5 1/2" csg at 5384'

40 sack plug 5420'-5320'

35 sax on BP (approx 350')
CIBF at 9650'



11 3/4\"Csg.Set @ 363'

Cmt.W/ 250 sax.

Cmt. circ.

8 5/8\"Csg.Set @ 4146'

Cmt.W/ 865 sax

5 1/2\"Csg.Set @ 9900'

Cmt.W/ 765 sax

Well Status Dry Hole Date 1968

Lease Depco State Well No. 1 Operator Hanagan Petr. Corp.

Location 330 ft. from North Line & 1980 ft from West Line, Sec, 28, Unit C

Survey T-13-S, R-33-E County Lea State NM

Elevation _____ Remarks Spud Date 4-10-68

10 sack surface plug

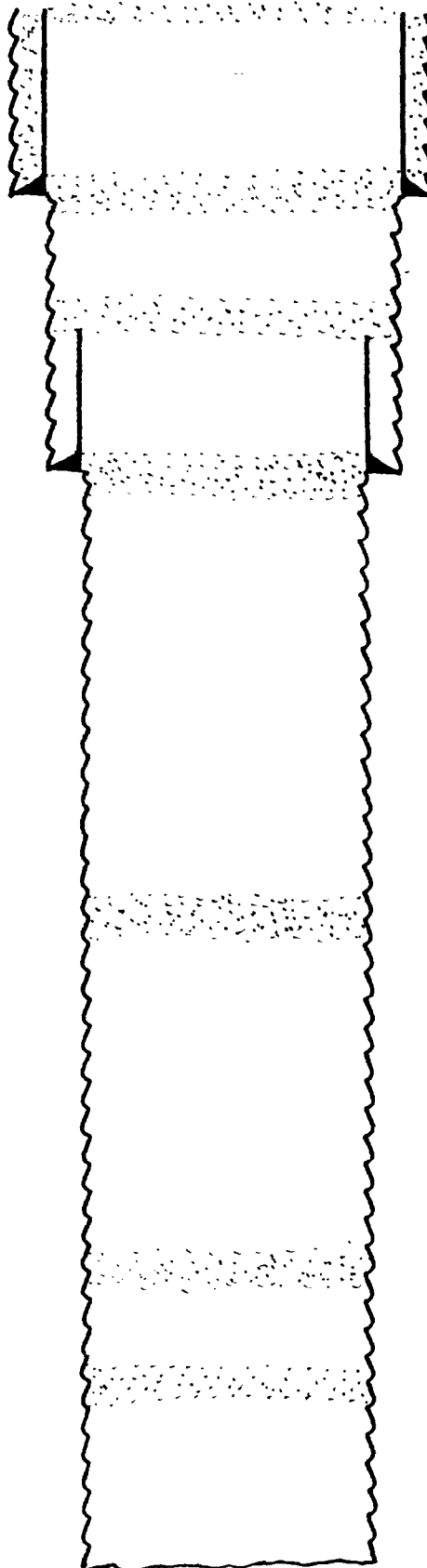
25 sack plug 288'-338'

25 sack plug 953'-1003'

25 sack plug 5339'-5439'

25 sack plug 7520'-7620'

25 sack plug 9711'-9811'



11 3/4 Csg. Set @ 338

Cmt.W/ 300 sacks (circ)

11" hole

8 5/8" Csg. Set @ 4030'

Cmt.W/ 540 sacks

7 7/8" hole

Well Status P & A Date 9-25-74
Lease Hanagan State Well No. 2 Operator Coquina (from M&S, Inc.)
Location 1980 ft. from South Line & 430 ft from West Line, Sec, 21, Unit L
Survey T-13-S, R-3-E County Lea State NM
Elevation _____ Remarks Spud Date 10-10-69. IP thru perf 9718'-34'. F 288 BOPD.

15 sack surface plug

75 sack plug 434'-334'

Cut 8 5/8" csg @ 800'

50 sack plug 737'-837'

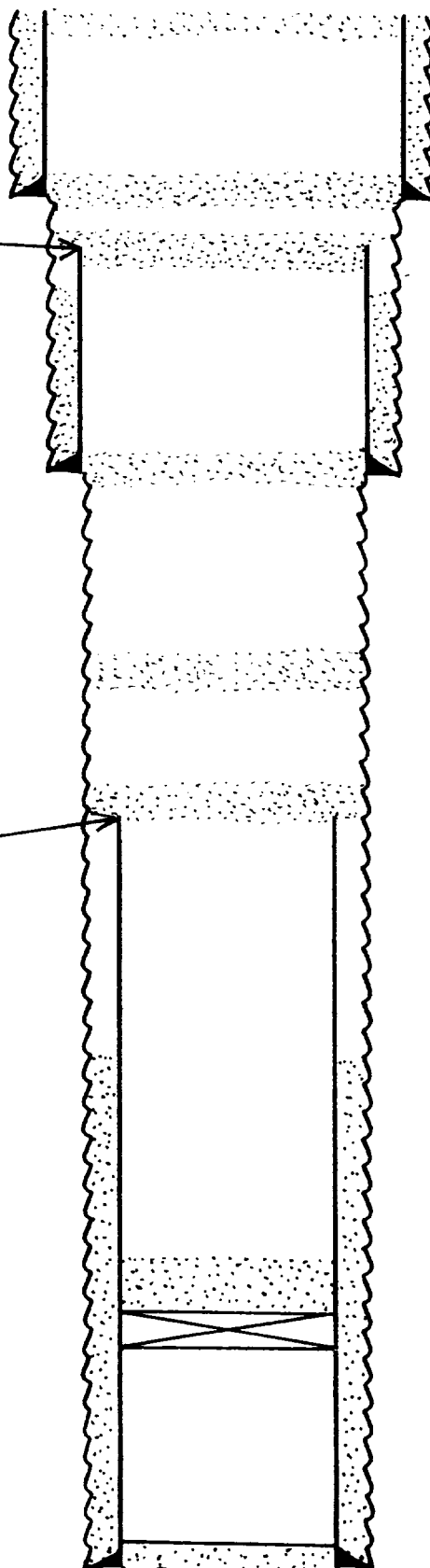
40 sack plug 4240'-4140'

35 sack plug 5400'-5300'

35 sack plug 6590'-6490'

Cut 5 1/2" csg at 6590'

35 sacks on IP (350')
CIBP at 9600'



13 3/8" Csg. Set @ 393'

Cmt.W/ 275 sack

8 5/8" Csg. Set @ 4200'

Cmt.W/

5 1/2" Csg. Set @ 9808'

Cmt.W/ 450 sacks

SERIAL REGISTER PAGE

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Legal Reference O&G(nc), Act of 2/25/20 as amended.		File Code 12.1	Serial Number NM 2842-C
Name and Mailing Address -Eavid-J.-Sorenson,-P.-O.-Box-1453,-Roswell,-New Mexico-88201- Sun Oil Company --BX-Division,10th-Floor,Wilco-Bldg.,Midland,-Texas--79701 Bo ^x 2880, Dallas, Tex. 75221		(Out of NM 2842)	
Description of Land T. 13 S., R. 33 E., NMPM Sec. 3: W $\frac{1}{2}$ SW $\frac{1}{4}$ 4: E $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$			
Acres: 320		Lease date: 8/1/67	
DATE OF ACTION	ACTION TAKEN		
DEC 3 1969	Partial asgn from Leo P. Morgan to David J. Sorenson. Appvd eff Nov. 1, 1969. 12/3/69 avp		
12-3-69	Asgn from David J Sorenson to Sun Oil Co., - DX Division. Appvd eff Nov 1, 1969. 12-12-69mpw		
1-14-1972	Asgn from Sun Oil Co (N.J.) to Sun Oil Co (Delaware). Appvc eff January 1, 1972. mig		
AUG 2 1976	LEASE TERMINATED UNDER PL 555 ACC # 49-B77-0072 FRC CONTAINER NO. T-16498 50		

4-954
(August 1958)

LEGAL REFERENCE AND KIND OF TRANSACTION		File Code	Serial Number
O&G Act of 2-25-20, as amended (Out of NM 2842) 12.1		12.1	NM 2842-B
NAME AND MAILING ADDRESS			
Debric B. Baxter, P.O. Box 4171, Midland, Texas 79701 320 Minerals, Ltd. P.O. Drawer 831 Midland, Texas 79701			
DESCRIPTION OF LAND			
T. 13 S., R. 33 E., NMPM Sec. 9: SE $\frac{1}{4}$			
Containing 160 acres		Base lease dated: 8-1-67	
DATE	ACTION TAKEN		
APR 12 1968	Partial assignment approved effective April 1, 1968, from Leo P. Morgan to Debric B. Baxter.		
4-9-1970	Asgn from D B Baxter to 320 Minerals Ltd. Appvd eff Mar 1, 1970. jcm		
JUL 31 1977	Lease Expired by Operation of Law, gms		
ACC. # 49-78-0078			
FRC CONTAINER NO. 12188			

LEGAL REFERENCE AND KIND OF TRANSACTION		File Code	Serial Number
OG (n.c.) - Act of 2-25-20, as amended		12.3	NM 2842
NAME AND MAILING ADDRESS			
Leo P. Morgan, P. O. Box 12321, Dallas, Texas 75225			
DESCRIPTION OF LAND			
T. 13 S., R. 33 E., N. Mex. Prin. Mer.			
Sec. 3: $W\frac{1}{2}SW\frac{1}{4}$			
Sec. 4: $E\frac{1}{2}SW\frac{1}{4}$, $SE\frac{1}{4}$			
Sec. 9: $SE\frac{1}{4}$			
Sec. 10: $SW\frac{1}{4}$			
Sec. 15: $S\frac{1}{2}$			
Sec. 20: All			
Acres: 1600 - 960 - 800 - 480			
DATE	ACTION TAKEN		
6-26-67	Simultaneous filing at 10:00 a.m. Drew No. 1 sg		
JUL 20 1967	Lease issued dated <u>AUG 1 1967</u> JUL 24 1967		
2-23-1968	Partial asgn from Leo P Morgan to Coastal States Gas Producing Co covering All Sec 20, T 13 S, R 33 E, NMPM, 640 acres. Appvd eff Mar 1, 1968. (NM 2842-A) 2-28-68mpw		
4-2-1968	Partial asgn from Leo P Morgan to Debric B Baxter covering $SE\frac{1}{4}$ Sec 9, T 13 S, R 33 E, NMPM, 160 acres. Appvd eff April 1, 1968. (NM 2842-B) 4-12-68mpw		
12-3-1969	Partial asgn from Leo P Morgan to David J Sorenson, covering: T 13 S, R 33 E, NMPM, 320 acres Sec 3: $W\frac{1}{2}SW\frac{1}{4}$ Sec 4: $E\frac{1}{2}SW\frac{1}{4}$, $SE\frac{1}{4}$. Appvd eff Nov 1, 1969. 12-12-69mpw		
JUL 31 1971	Lease Expired by Operation of Law m.		
ACC. # 49-78-0078			
FRC CONTAINER NO. <u>12188</u>			

CLOSED

SERIAL REGISTER PAGE

AS OF: 2/24/84
PRINTED: 2/28/84ACT 2-25-1920 30USC181
O&G LSE NONCUMP PUB LAND
COMMODITY- OIL & GASCASE TYPE SERIAL NUMBER
311111 NMNM 2842A-----
NAME AND ADDRESSCOASTAL STATES GAS
DRAWER 521
CORPUS CHRISTI TX 78403
LESSEEPRUDENTIAL FUNDS INC
1960 ONE MAIN PL
DALLAS TX 75250
ASSIGNEE 50.00000 %-----
DESCRIPTION OF LANDNEW MEX PM
T. 13 S. R. 33 E,
SEC. 20: ALLLEA
ROSWELLCOUNTY, NM
DISTRICT

640.000 ACRES

ACTIONS

DATE	CODE	TAKEN	REMARKS
8/01/1967	868	EFFECTIVE DATE	
3/01/1968	898	ASSIGNMENT EFFECTIVE	NMNM2842
4/18/1968	315	RENTAL RATE ADJUSTED	\$2.00 AC
5/22/1968	102	ACCT TRFD TO MMS	ROSWELL NM
7/01/1972	898	ASSIGNMENT EFFECTIVE	
1/20/1984	932	ASGN OPER RGTS FILED	
*****		PENDING ACTION: ADJUDICATION SECTION	

GB

