

Exhibits 1 through 9  
Complete Set

TD83 ↑ \$910 TD7400  
TD. 900

TD951

29#

28

TD933  
TD. 6404

TD. 2460  
Phillips Oil  
(Gen. Amer.)  
TD. A. Green  
TD1000  
P/B2600 \*

Horizon O&G  
Lea-St

TD1000  
TD. 3100

TD. 2108 TD. 6261

31

Midwest  
So. Empire Op.

32

TD9200  
TD. 245

TD. 2460  
TD. 3100

33

TD6496  
TD. 2457

34

TD2749

35

TD3140

36

TD3144

37

TD3148

38

Midwest  
Mail  
So. Empire Op.

39

TD11194

40

TD1215  
TD3984

41

TD2750

42

TD3916  
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43

TD3916  
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44

TD3195

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THE POLICE EXAMINER CATANACH

DOC CONSERVATION DIVISION

SDX EXHIBIT NO. 1

CASE NO. 10684

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose:  Secondary Recovery  Pressure Maintenance  
Application qualifies for administrative approval?

II. Operator: SDX RESOURCES, INC.

Address: 300 WEST TEXAS, SUITE 525, P. O. BOX 5061 MIDLAND, TX 79704

Contact party: CHUCK MORGAN Phone: (505) 748-9814

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: Chuck Morgan Title: Engr

Signature: Chuck Morgan Date: 1/13/93

\* 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.

C-108

January 11, 1993

**APPLICATION FOR AUTHORIZATION TO INJECT**  
**SDX Resources, Inc.**

- 1.) Leonard Fed. #3  
Unit F, Sec. 33, T-17-S, R-29-E,  
Eddy County, New Mexico
- 2.) Leonard B Fed. #1  
Unit B, Sec. 33, T-17-S, R-29-E,  
Eddy County, New Mexico

I. SDX plans to convert these 2 wells to injection wells in the Grayburg and San Andres Formations.

II. Operator: SDX Resources, Inc.  
300 W. Texas, Suite 525  
P. O. Box 5061  
Midland, TX 79704-5061

—> ARTERIA OFFICE 748-9724  
FAX 748-9810

Chuck Morgan (915) 685-1761

III. Well Data: See Attachment A

IV. This is not an expansion of existing project.

V. See Attached maps. Attachment B-1 and B-2.

VI. Tabular list of wells within both areas of review. (See Attachments C-1 and C-2) (P&A Schematics Attachment D)

- VII. (1) Proposed average daily injection volume: 200 BWPD  
Maximum daily injection volume: 1,000 BWPD
- (2) This will be a closed system.
- (3) Proposed average injection pressure: unknown  
Proposed maximum injection pressure: 530 psi
- (4) Injected water would be produced water from the Grayburg Jackson. At a later date, supplemental make up water consisting of fresh water from the

Double Eagle fresh water supply system could possibly be added to the system. Injection Fluid Analysis (Attachment E).

(5) Formation Water Analysis (Attachment E).

VIII.(1) The proposed injection interval is the portion of the Grayburg and San Andres Formations consisting of porous sand and dolomite.

(2) Fresh water zones overlie the proposed injection zone at approximately 150'.

IX. The proposed injection interval in both wells may be acidized with 15% HCL.

X. Well logs and test data are on file at the OCD.

XI. A windmill exist very near the 1/2 mile area of review. (Location an Analysis see Attachment F.)

XII. Geologic and engineering data have been examined and no evidence of open faults or any other hydrological connection between the injection zones and any underground fresh water aquifers has been found.

XIII.(A) Certified letters sent to surface owners and offset operators attached. (See Attachment G)

(B) Copy of legal advertisement attached. (See Attachment H) (Copy of affidavit of publication attached.)

**ATTACHMENT A**  
Page 1

**III. Well Data: Leonard Fed. #3**

- A. (1) Unit F, Section 33, T-17-S, R-29-E, Eddy County, New Mexico being 1980' FNL and 1980' FWL.
- (2) Casing: 8 5/8", 24# at 357' cemented with 75 sx.  
TOC at Surface (Calc.)  
5 1/2", 15.5# at 2989' cemented with 125 sx.  
TOC at 2227' (Calc.)  
TD: 3052'  
PBTM: 2989'
- (3-4) Proposed well condition: Same as above with 2 3/8" plastic coated tbg at 2550' with plastic coated R-4 packer at 2550'.
- B. (1) Injection Formation: Grayburg and San Andres
- (2) Injection interval will be thru existing perforations 2654'-2956'.
- (3) Well was drilled and completed as a producer in the Grayburg and San Andres. *Perma*
- (4) Perforations: 2654-70, 2708-13, 2944-49, 2951-56.
- (5) Next shallow oil or gas zone: Queen  
Next deeper oil or gas zone: Yeso

TOP of SP @  
2735'

**ATTACHMENT A**  
Page 2

III. Well Data: Leonard B Fed. #1

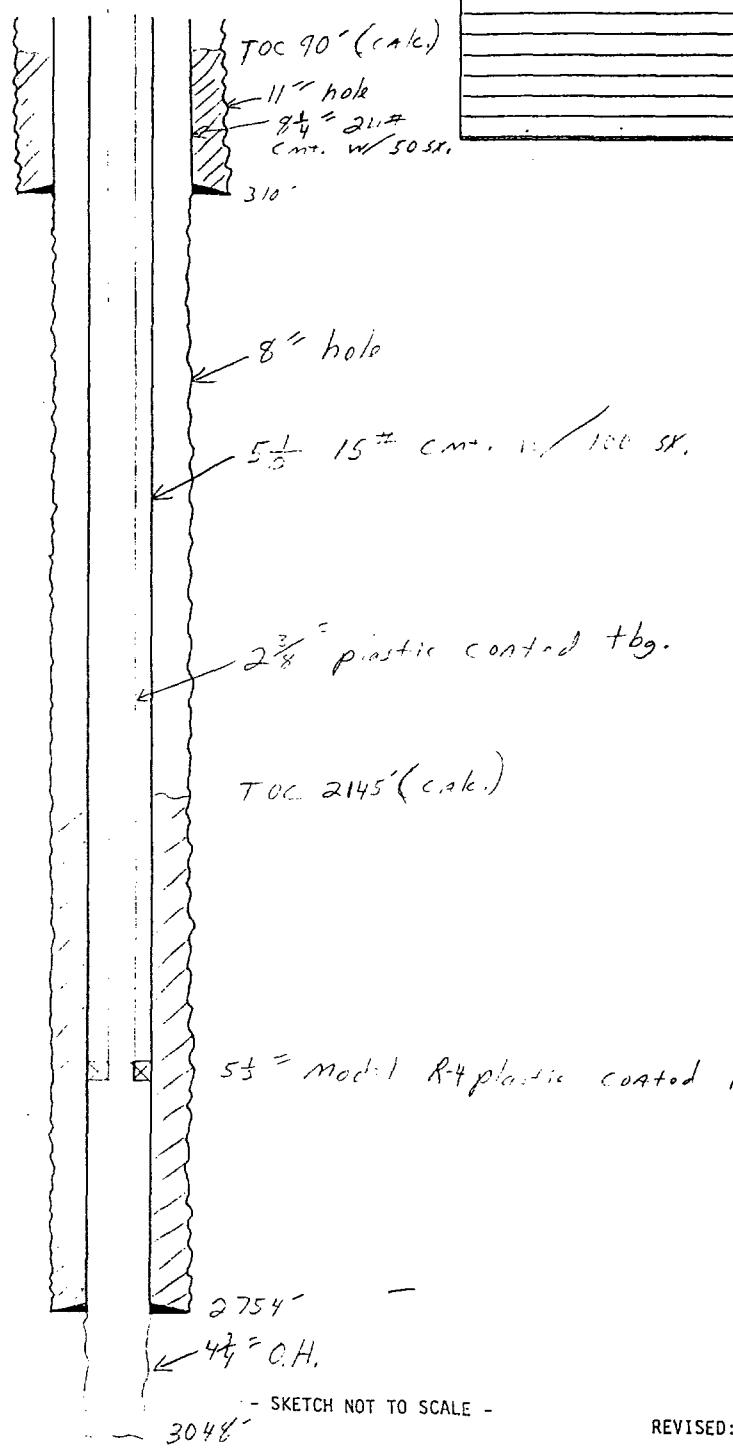
- A. (1) Unit B, Section 33, T-17-S, R-29-E, Eddy County, New Mexico being 330' FNL and 1650' FEL.
- (2) Casing: 8 1/4", 24# at 310' cemented with 50 sx.  
TOC at 90' (Calc.)  
5 1/2", 15# at 2754' cemented with 100 sx.  
TOC at 2145' (Calc.)  
O.H. 2754'-3048'
- (3-4) Proposed well condition: Casing same as above. Select perforations may be added in casing between 2650'-2754'. Injection will be into additional perfs 2650'-2754' and O.H. 2754'-3048' thru 2 3/8 plastic coated tubing with a R-4 plastic packer set at 2550'.
- B. (1) Injection Formation: Grayburg and San Andres
- (2) Injection interval: perfs 2650'-2754' and O.H. 2754'-3048'.
- (3) Well was drilled and completed as a producer in the Grayburg and San Andres.
- (4) Perforations: Proposed 2650'-2754' O.H. 2754'-3048'
- (5) Next shallow oil or gas zone: Queen  
Next deeper oil or gas zone: Yeso



WELL NAME: Loverard B Fld. #1 FIELD AREA: Grayburg Jackson  
 LOCATION: Wt R 330' FLD 1650' FEL Sec. 33 173 29E  
 GL: ZERO: DE 3555' AGL:   
 KB: ORIG. DRLG./COMPL. DATE: 5/28/45 - 7/4/45  
 COMMENTS:

CASING PROGRAM:

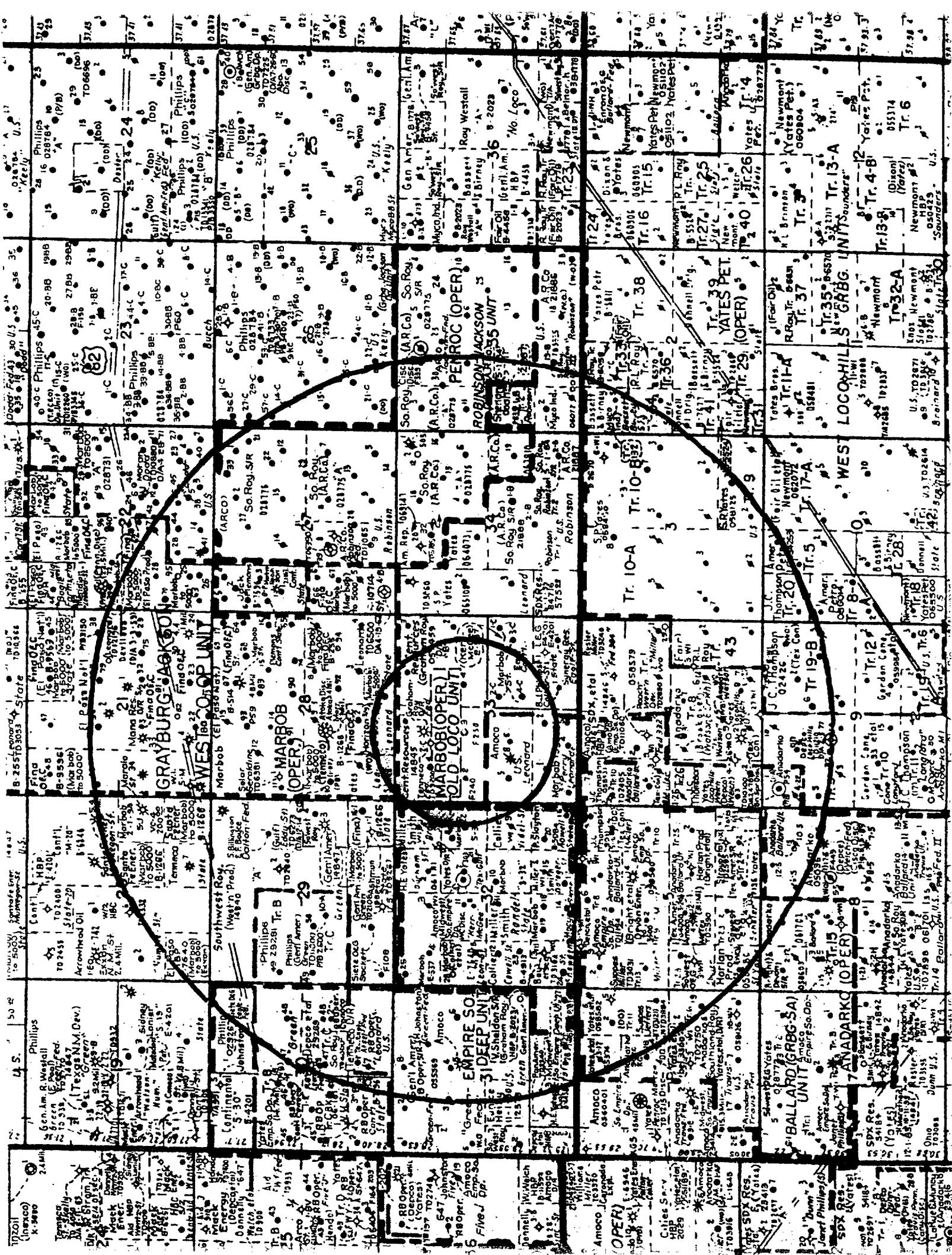
SIZE/WT./GR./CONN.	DEPTH SET
9 1/2" 20# CMT. w/ 50 SX	310'
5 1/2" 15# CMT. w/ 100 SX	2754'



- SKETCH NOT TO SCALE -

REVISED: 11/28/92

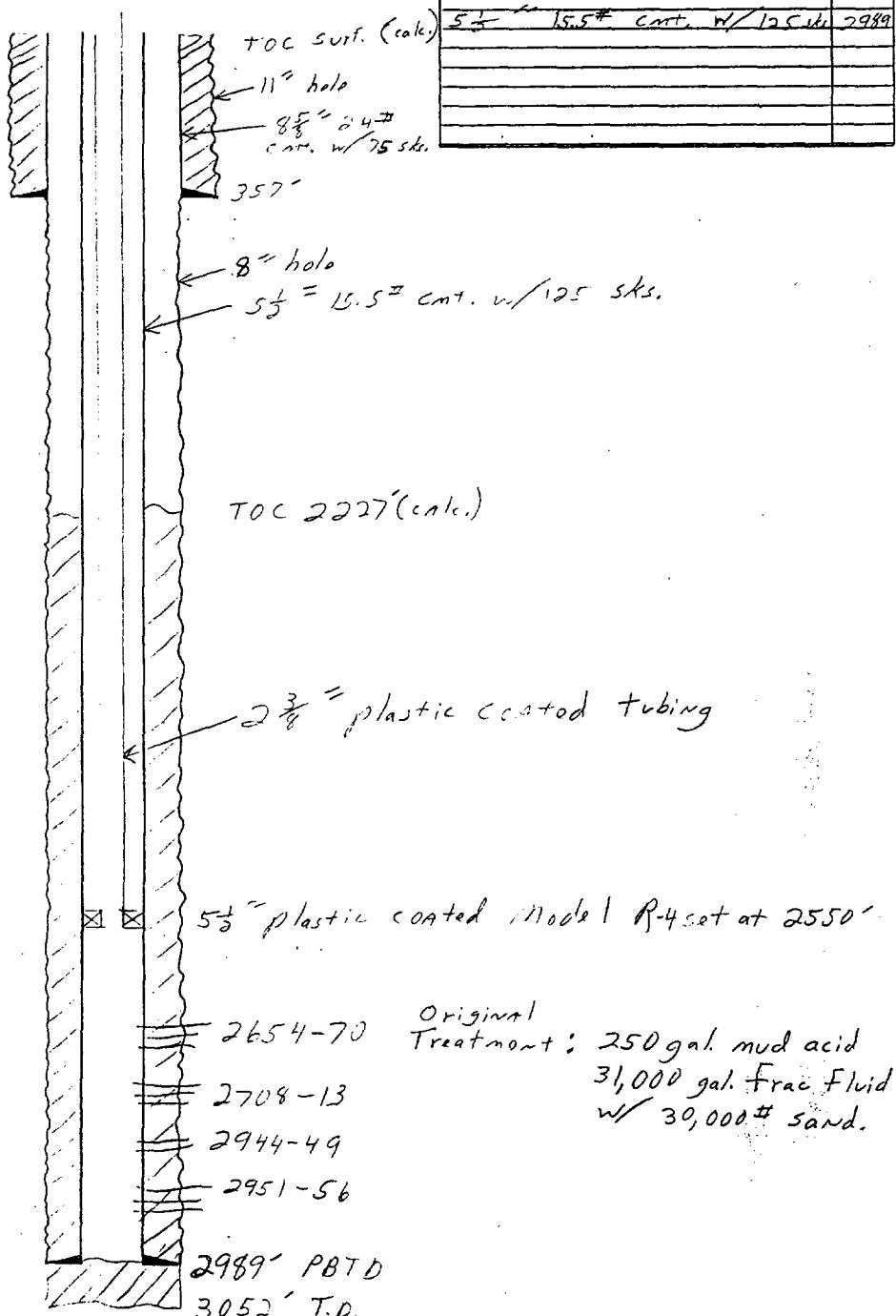
**ILLEGIBLE**



WELL NAME: Leonard Fed. #3 FIELD AREA: Grayburg Jackpot  
 LOCATION: UNIT F 1980 FNLL FWL 50e, 33 175 29E  
 GL: ZERO: DF 2548' AGL:  
 KB: ORIG. DRLG./COMPL. DATE: 9/21/58 - 10/5/58  
 COMMENTS:

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET
8 1/2" 24# 357' cont w/ 75 skrs.	357
5 1/2" 15.5# cont. w/ 125 sks.	2989'



- SKETCH NOT TO SCALE -

REVISED: 11/28/92

ILLEGIBLE

WELLS IN LEONARD FEDERAL #3 AREA OF REVIEW  
ATTACHMENT C-1

WELL NAME	OPERATOR	TYPE	SPUD	COMPLETION	T.D.	PROD. ZONE	PERFS	COMPLETION INFORMATION	
								O.H.	2 1/4"
LEONARD B FED #1 B-33-17S-29E	SDX RESOURCES, INC	OIL	5-28-45	7-8-45	3048'	GRAYBURG SAN ANDRES	5 1/2"	15#	2754'
LEONARD B FED #4 G-33-17S-29E	SDX RESOURCES, INC	OIL	11-11-58	12-19-58	3135'	GRAYBURG SAN ANDRES	2 3/8"	TBG	3039'
LEONARD FED #2 E-33-17S-29E	SDX RESOURCES, INC	OIL	8-3-58	9-12-58	3041'	GRAYBURG SAN ANDRES	5 1/2"	14#	3135'
LEONARD FED #3 F-33-17S-29E	SDX RESOURCES, INC	OIL	9-23-58	10-27-58	3052'	GRAYBURG SAN ANDRES	2 3/8"	TBG	2698'
LEONARD FED #4	SDX RESOURCES, INC	OIL	11-11-58	2-2-59	2983'	GRAYBURG SAN ANDRES	5 1/2"	24#	353'
LEONARD FED #1 C-33-17S-29E	SDX RESOURCES, INC	OIL	11-21-43	2-21-44	2732'	GRAYBURG SAN ANDRES	2 3/8"	TBG	3041'
LEONARD FED #5 L-33-17S-29E	SDX RESOURCES, INC	OIL	1-1-59	2-10-59	3101'	GRAYBURG SAN ANDRES	7"	TBG	2843'
LEONARD FED #6 K-33-17S-29E	SDX RESOURCES, INC	OIL	1-14-59	2-25-59	3058'	GRAYBURG SAN ANDRES	2 3/8"	28#	330'
LEONARD B FED #5 B-33-17S-29E	SDX RESOURCES, INC	OIL	4-29-92	9-1-92	3690'	GRAYBURG SAN ANDRES	5 1/2"	14#	2989'
OLD LOCO UNIT #22 H-32-17S-29E	MARBOB ENERGY	OIL	4-8-81	4-15-81	3517'	GRAYBURG SAN ANDRES	2 3/8"	TBG	2852'
PERRY LEONARD #2	MARBOB ENERGY	OIL	3-9-78	3-10-78	2827'	GRAYBURG SAN ANDRES	7"	TBG	2450'

WELLS IN LEONARD FEDERAL #3 AREA OF REVIEW  
ATTACHMENT C-1

WELL NAME	OPERATOR	TYPE	SPUD	COMPLETION	T.D.	PROD. ZONE	PERFS	COMPLETION INFORMATION
G-J WEST COOP UNIT #77 O-28-17S-29E	MARBOB ENERGY	OIL	12-4-85	12-31-85	4590'	GRAYBURG SAN ANDRES	2447'-3486'	8 5/8" 24# 296' 250 SX 5 1/2" 15.5# 4570' 1350 SX 2 7/8" TBG 3506' PUMPING
PERRY LEONARD #1 M-33-17S-29E	MARBOB ENERGY	OIL	2-24-44	6-1-44	275'	GRAYBURG SAN ANDRES	O.H. 8 1/4" 2 3/8"	385' 100 SX 7" 2430' 100 SX 2 3/8" TBG 2735' PUMPING
MARBOB ST 2C J-33-17S-29E	MARBOB ENERGY	OIL	10-10-59	11-19-59	3198'	GRAYBURG SAN ANDRES	2746'-2756'	8 5/8" 24# 320' 25 SX 5" 2985' 125 SX 2 3/8" TBG 2690' PUMPING
MARBOB ST 4C J-33-17S-29E	MARBOB ENERGY	OIL	8-26-50	5-5-58	3100'	GRAYBURG SAN ANDRES	2876'-2890'	8 5/8" 24# 300' N.R. 5 1/2" 14# 3014' 125 SX 2 3/8" TBG 2730' PUMPING
FED 33 COM #1 C-33-17S-29E	TENNECO OIL CO	GAS	7-16-74	10-11-74	11095'	MORROW	10761'-10804'	13 3/8" 48# 297' 300 SX 8 5/8" 32# 3400' 2700 SX 5 1/2" 17-15.5# 11095' 555 SX 2 3/8" TBG 10653' FLOWING
TENNECO OIL CO	T.A.	T.A.	7-22-79	1-15-80	9200'	NONE S.I.	9090'-9110'	13 3/8" 54.5# 348' 325 SX CIBP 9050' 8 5/8" 24&32# 2800' 1200 SX 8612'-8780' 5 1/2" 17-15.5# 11179' 400 SX CIBP 7650' CIBP AT 7650' W/35' CMT
EMPIRE SOUTH DEEP UNIT GAS COM #8 L-33-17S-29E	AMOCO PROD CO	P.A.	2-22-76	12-8-76	11180'	STRAWN	10160'-10177'	13 3/8" 54.5# 394' 400 SX 9 5/8" 32.3-36# 2930' 2000 SX 5 1/2" 15.5# 11179' 2878 SX P&A 11-30-87
LEONARD B FED #2 H-33-17S-29E	SDX RESOURCES, INC	OIL	2-15-47	4-6-47	3121'	GRAYBURG SAN ANDRES	2973'-3121'	8 5/8" 24# 348' 50 SX 7" 20# 2973" 100 SX 2 3/8" TBG PUMPING
LEONARD B FED #3 A-33-17S-29E	SDX RESOURCES, INC	OIL	5-5-47	7-7-47	3086'	GRAYBURG SAN ANDRES	2900'-3086'	8 5/8" 28# 320' 50 SX 7" 20# 2873" 100 SX 2 3/8" TBG PUMPING

WELLS IN LEONARD B FEDERAL #1 AREA OF REVIEW  
ATTACHMENT C-2

WELL NAME	OPERATOR	TYPE	SPUD	COMPLETION	T.D.	PROD. ZONE	PERFS	COMPLETION INFORMATION
LEONARD ST. #1 O-28-17S-29E	MARBOB ENERGY	Oil	10-15-45	12-5-45	2800'	GRAYBURG SAN ANDRES	O.H. 2750'-T.D. 7"	290' 50 SX 100 SX PUMPING
G-J WEST COOP UNIT #92 J-28-17S-29E	MARBOB ENERGY	Oil	2-3-91	3-4-91	4800'	GRAYBURG SAN ANDRES	2741'-3456' 5 1/2" 2 7/8"	2750' 2780' TBG 3500'
G-J WEST COOP UNIT #94 I-28-17S-29E	MARBOB ENERGY	Oil	6-22-91	7-16-91	3650'	GRAYBURG SAN ANDRES	2757'-3433' 5 1/2" 2 7/8"	325 SX 1250 SX PUMPING
LEONARD ST. #4 P-28-17S-29E	MARBOB ENERGY	Oil	1946	1946	2932'	GRAYBURG SAN ANDRES	2405'-2424' O.H. 2783'-2932' 7"	327' 17# TBG 3469'
LEONARD ST. #3 O-28-17S-29E	MARBOB ENERGY	W/W	7-22-44	9-30-44	3063	GRAYBURG SAN ANDRES	O.H. 2750'-2904' 7"	300' 20# TBG 2783'
LEONARD ST. #4B M-27-17S-29E 660' FWL & 330' FSL	MARBOB ENERGY	P&A	4-9-62	4-26-62	6515'	GRAYBURG SAN ANDRES	P&A 8 1/2" 7"	310' 50 SX 80 SX PUMPING
ROBINSON A-3 D-34-17S-29E 660' FNL & FWL	YATES DRILLING CO	Oil	2-24-46	4-18-46	3140'	GRAYBURG SAN ANDRES	O.H. 2941'-3140' 2 3/8"	24# 25 SX - 6435' 20 SX - 4450'
LEONARD ST. #1 D-34-17S-29E	YATES DRILLING CO	Oil	5-18-46	9-11-46	3100'	GRAYBURG SAN ANDRES	O.H. 2880'-3073' 7"	300' 20# TBG 2880'
LEONARD ST. #4 ████████████████ 430' FNL & 990' FWL	YATES DRILLING CO	P&A	11-13-48	12-31-48	3060'	GRAYBURG SAN ANDRES	P&A 8"	310' NO RECORDS
LEONARD ST. #2 N-28-17S-29E	MACK ENERGY	Oil	2-26-44	4-30-44	2945'	GRAYBURG SAN ANDRES	O.H. 2605'-2945' 7"	24# 20# TBG 2920'
G-J WEST COOP UNIT #77 O-28-17S-29E	MARBOB ENERGY	Oil	12-4-85	12-31-85	4590'	GRAYBURG SAN ANDRES	2447'-3486' 5 1/2" 2 7/8"	296' 15.5# TBG 3506'

WELLS IN LEONARD B FEDERAL #1 AREA OF REVIEW  
ATTACHMENT C-2

WELL NAME	OPERATOR	TYPE	SPUD	COMPLETION	T.D.	PROD. ZONE	PERFS	COMPLETION INFORMATION
LEONARD FED #1 C-33-17S-29E	SDX RESOURCES, INC	OIL	11-21-43	2-21-44	2732'	GRAYBURG SAN ANDRES	2439'-2731'	8 1/4" 7" 2 3/8"
LEONARD FED #4	SDX RESOURCES, INC	OIL	11-11-58	2-2-59	2983'	GRAYBURG SAN ANDRES	2454'-2956'	8 5/8" 5 1/2" 2 3/8"
LEONARD FED #3 F-33-17S-29E	SDX RESOURCES, INC	OIL	9-23-58	10-27-58	3052'	GRAYBURG SAN ANDRES	2654'-2956'	8 5/8" 5 1/2" 2 3/8"
LEONARD B FED #4 G-33-17S-29E	SDX RESOURCES, INC	OIL	11-11-58	12-19-58	3135'	GRAYBURG SAN ANDRES	2738'-3058'	8 5/8" 5 1/2" 2 3/8"
FED 33 COM #1 C-33-17S-29E	TENNECO OIL CO	GAS	7-16-74	10-11-74	11095'	MORROW	10761'-10804'	13 3/8" 8 5/8" 5 1/2" 2 3/8"
LEONARD FED #2 H-33-17S-29E	T.A.	T.A.	7-22-79	1-15-80	9200'	NONE S.I.	9090'-9110' CIBP 9050' 8612'-8780'	48# 32# 17-15.5# 2 3/8"
LEONARD B FED #2 H-33-17S-29E	SDX RESOURCES, INC	OIL	2-15-47	4-6-47	3121'	GRAYBURG SAN ANDRES	2973'-3121'	8 5/8" 7 2 3/8"
LEONARD B FED #3 A-33-17S-29E	SDX RESOURCES, INC	OIL	5-5-47	7-7-47	3086'	GRAYBURG SAN ANDRES	2900'-3086'	8 5/8" 7" 2 3/8"

Q200'

TCC 6850 by OBL

**P & A WELL SCHEMATICS**

**Attachment D**

WELL NAME: Empire South Dip C #8 FIELD AREA: CMT 115-7

LOCATION: 195-1 FSL 31241 FFL 5000-33 175-292

GL: 5549' ZERO: 5549' AGL

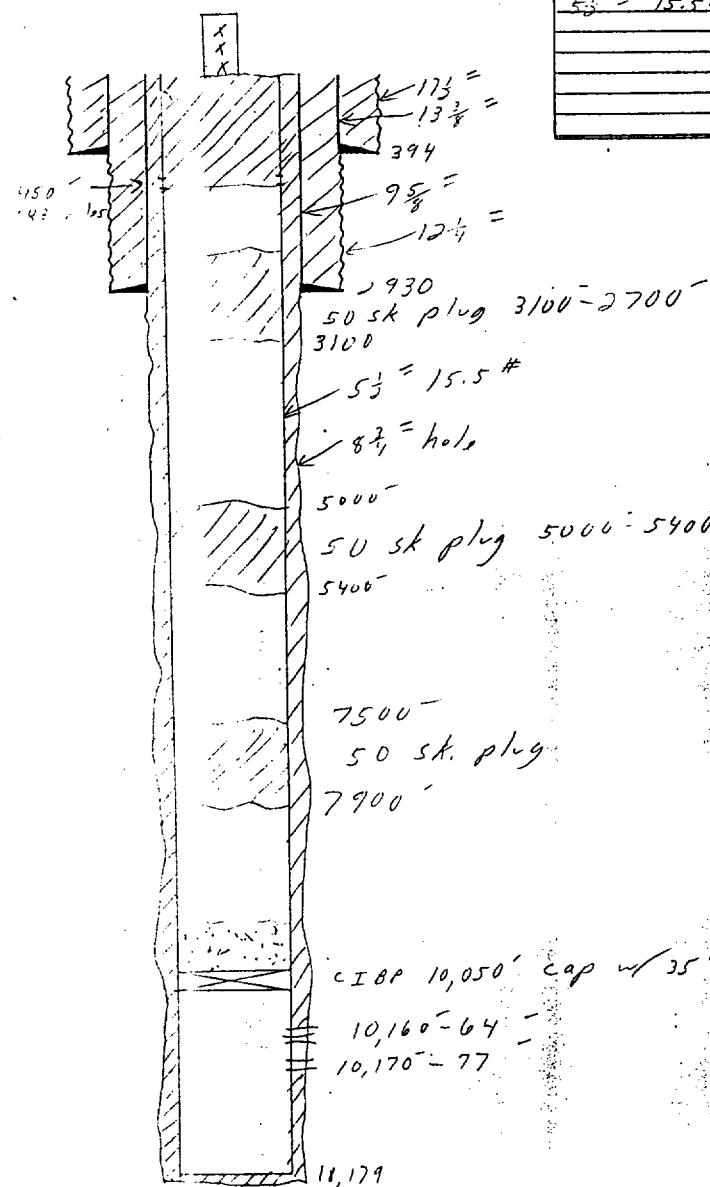
KB: ORIG. DRLG./COMPL. DATE:

COMMENTS:

## CASTING PROGRAM

SIZE/WT./GR./CONN. DEPTH SET

13 1/2"	545 lb/cntn w/ 400' lft	394
9 5/8"	32.2 = 36# cast	2920
5 1/2"	15.5# cast w/ 2828' m	11,179



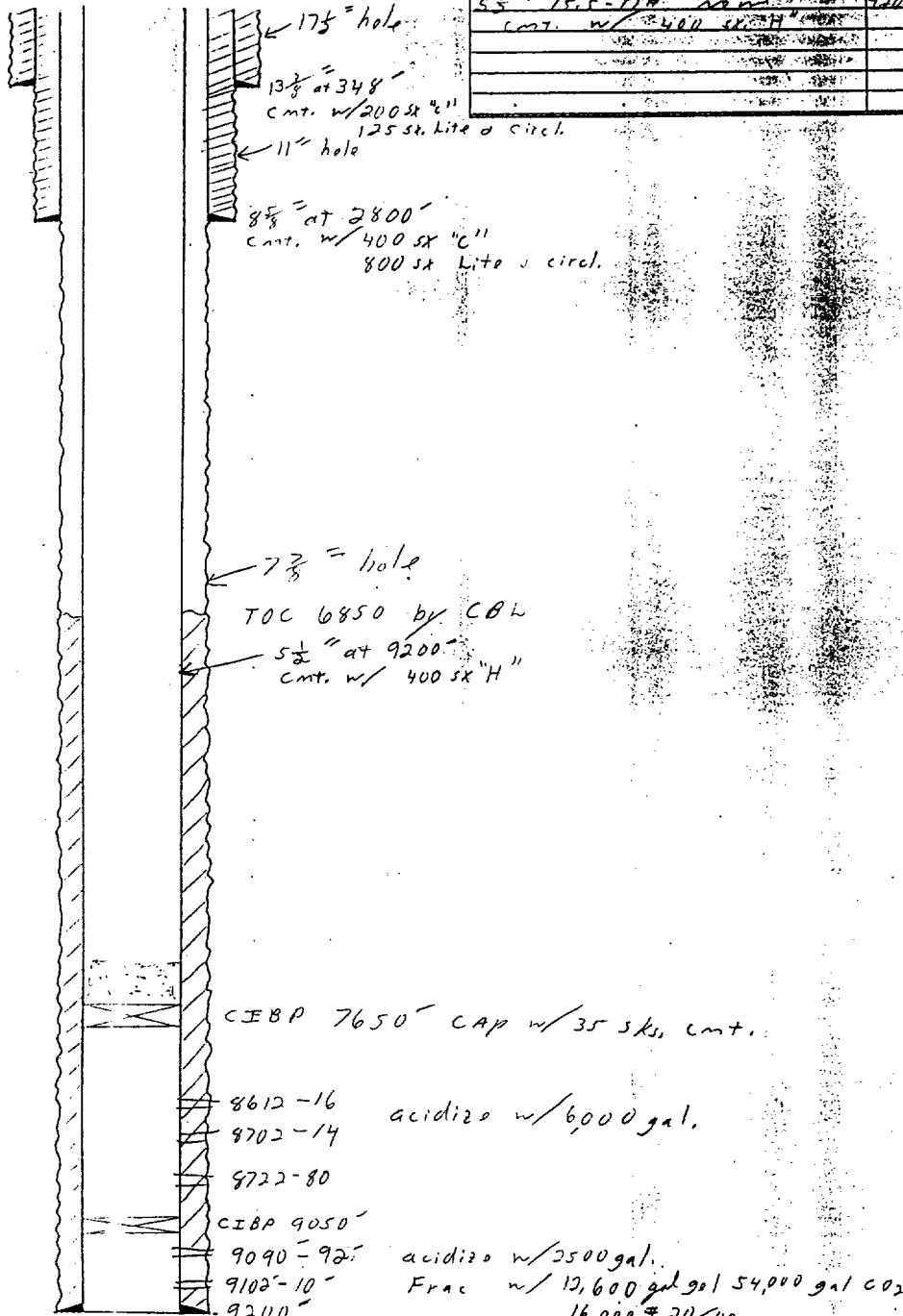
- SKETCH NOT TO SCALE -

REVISED: 11/27/92

**ILLEGIBLE**

WELL NAME: Federal 33C #2 FIELD AREA: SW 1/4 E 1/4 T 1/4  
 LOCATION: Sec 33 T 27 S R 29 E 100' FWL 2 170' FWL  
 GL: 3555 ZERO: AGL  
 KB: 375 ORIG. DRILL./COMPL. DATE: 1/15/80  
 COMMENTS:

SIZE/WT./GR./CONN	DEPTH/SET
13 1/2" 5400 lbs "C"	348'
Cast. w/ 200sx "C"	
8 1/2" 2400 lbs "C"	2800'
Cast. w/ 400sx "C"	
5 1/2" 15.5-17"	9200'
Cast. w/ 400sx "H"	



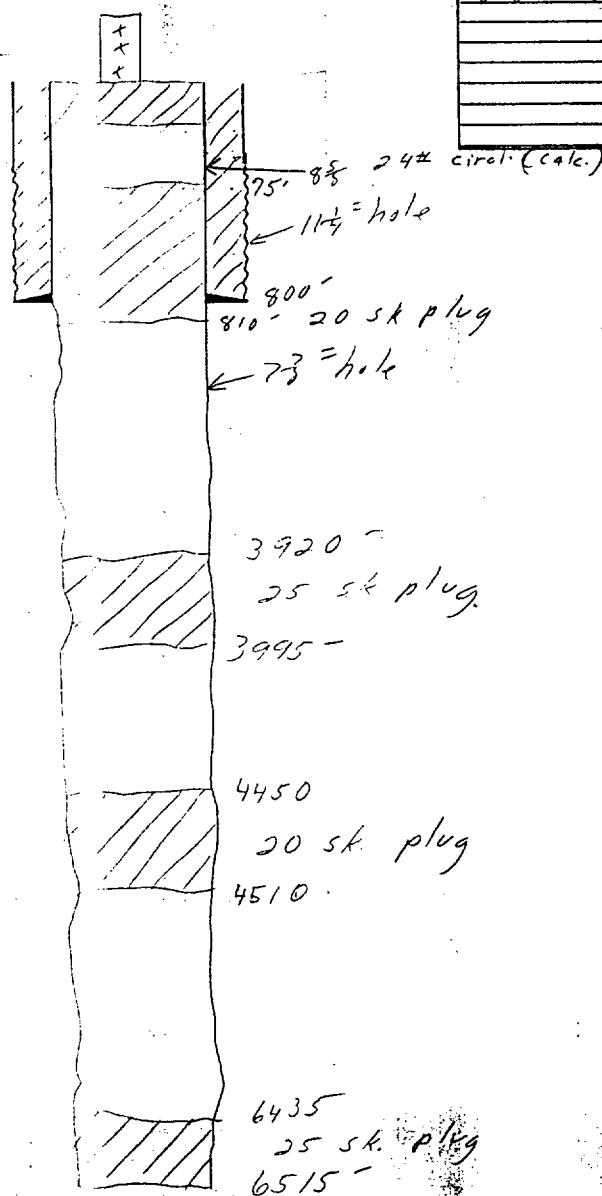
- SKETCH NOT TO SCALE-

REVISED: 1/12/92

**ILLEGIBLE**

WELL NAME: Bernard St. 48FIELD AREA: GrayburgLOCATION: Unit M Sec. 27 175 E 79 F 660' EWL, 330' PSLGL: 730' ZERO:   AGL:  KB: 40' ORIG. DRLG./COMPL. DATE: 4/19/62COMMENTS:  

SIZE/WT./GR./CONN.	DEPTH/SET
9 5/8" - 24 ft. 800'	2850 - 800'
10 1/4" - 20 ft. 800'	2920 - 800'
10 3/4" - 20 ft. 800'	2995 - 800'
11 1/4" - 20 ft. 800'	3070 - 800'
11 3/4" - 20 ft. 800'	3145 - 800'
12 1/2" - 20 ft. 800'	3220 - 800'
13 1/2" - 20 ft. 800'	3295 - 800'
14 1/2" - 20 ft. 800'	3370 - 800'
15 1/2" - 20 ft. 800'	3445 - 800'
16 1/2" - 20 ft. 800'	3520 - 800'
17 1/2" - 20 ft. 800'	3595 - 800'
18 1/2" - 20 ft. 800'	3670 - 800'
19 1/2" - 20 ft. 800'	3745 - 800'
20 1/2" - 20 ft. 800'	3820 - 800'
21 1/2" - 20 ft. 800'	3895 - 800'
22 1/2" - 20 ft. 800'	3970 - 800'
23 1/2" - 20 ft. 800'	4045 - 800'
24 1/2" - 20 ft. 800'	4120 - 800'
25 1/2" - 20 ft. 800'	4195 - 800'
26 1/2" - 20 ft. 800'	4270 - 800'
27 1/2" - 20 ft. 800'	4345 - 800'
28 1/2" - 20 ft. 800'	4420 - 800'
29 1/2" - 20 ft. 800'	4495 - 800'
30 1/2" - 20 ft. 800'	4570 - 800'
31 1/2" - 20 ft. 800'	4645 - 800'
32 1/2" - 20 ft. 800'	4720 - 800'
33 1/2" - 20 ft. 800'	4795 - 800'
34 1/2" - 20 ft. 800'	4870 - 800'
35 1/2" - 20 ft. 800'	4945 - 800'
36 1/2" - 20 ft. 800'	5020 - 800'
37 1/2" - 20 ft. 800'	5095 - 800'
38 1/2" - 20 ft. 800'	5170 - 800'
39 1/2" - 20 ft. 800'	5245 - 800'
40 1/2" - 20 ft. 800'	5320 - 800'
41 1/2" - 20 ft. 800'	5395 - 800'
42 1/2" - 20 ft. 800'	5470 - 800'
43 1/2" - 20 ft. 800'	5545 - 800'
44 1/2" - 20 ft. 800'	5620 - 800'
45 1/2" - 20 ft. 800'	5695 - 800'
46 1/2" - 20 ft. 800'	5770 - 800'
47 1/2" - 20 ft. 800'	5845 - 800'
48 1/2" - 20 ft. 800'	5920 - 800'
49 1/2" - 20 ft. 800'	6000 - 800'



- SKETCH NOT TO SCALE -

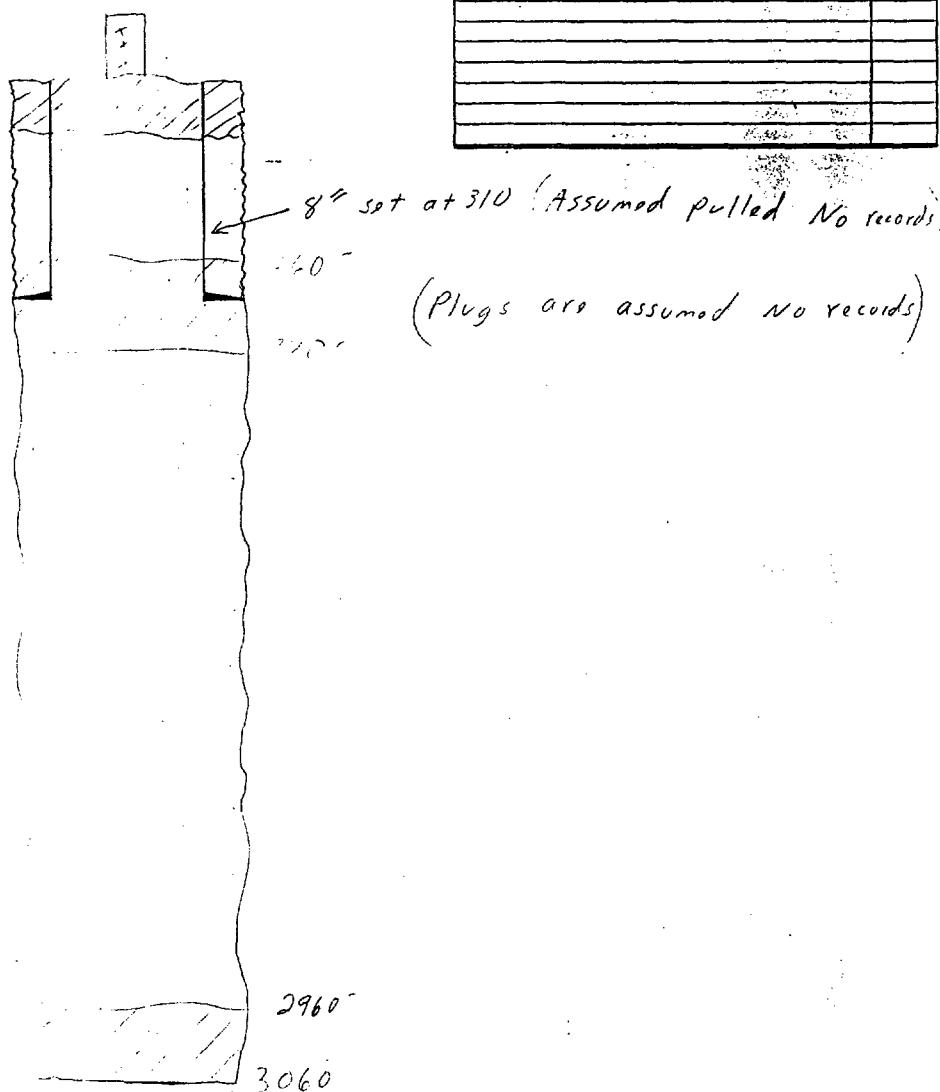
REVISED: \_\_\_\_\_

**ILLEGIBLE**

WELL NAME: Lizard ST. #4FIELD AREA: Grayburg Tee FLOCATION: Sec. 0 5 sec. 34 17S 29E 430 FNL J 990 FWLGL: 3 1/2' ZERO:       ' AGL:       'KB:       ' ORIG. DRLG./COMPL. DATE: 1/1/48 12/31/48 Casing Program:

COMMENTS: \_\_\_\_\_

SIZE/WT./GR./CONN.	DEPTH SET
8" set	310'



- SKETCH NOT TO SCALE -

REVISED: \_\_\_\_\_

**ILLEGIBLE**

ATTACHMENT E  
HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

ARTESIA DISTRICT

LABORATORY REPORT

No. W399 & W400-92

TO S D X Resources  
P. O. Box 5061  
Midland, TX 79704

Date November 27, 1992

This report is the property of Halliburton Services and neither it nor any part thereof, nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management. It may, however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Services.

Submitted by \_\_\_\_\_ Date Rec. \_\_\_\_\_

Well No. \_\_\_\_\_ Depth \_\_\_\_\_ Formation \_\_\_\_\_

Field \_\_\_\_\_ County \_\_\_\_\_ Source \_\_\_\_\_

Standard Windmill \_\_\_\_\_ Leonard Battery \_\_\_\_\_

Resistivity ..... 1.77 @ 70° 0.060 @ 70°

Specific Gravity .. 1.0029 @ 70° 1.1328 @ 70°

pH ..... 6.8 7.5

Calcium ..... 3,076 4,922

Magnesium ..... 652 2,144

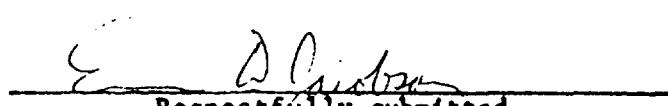
Chlorides ..... 2,000 116,000

Sulfates ..... 1,400 1,200

Bicarbonates ..... 244 305

Soluble Iron ..... 0 0

Remarks:

  
Respectfully submitted

Analyst: Eric Jacobson - Operations Engineer

HALLIBURTON SERVICES

NOTICE:

This report is for information only and the content is limited to the sample described. Halliburton makes no warranties, express or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage, regardless of cause, including any act or omission of Halliburton resulting from the use hereof.

**Attachment F**

Page 1 - Windmill Location  
Page 2 - Water Sample



## HALLIBURTON DIVISION LABORATORY

## HALLIBURTON SERVICES

## ARTESIA DISTRICT

## LABORATORY REPORT

No. W399 & W400-92

**TO** S D X. Resources  
P. O. Box 5061  
Midland, TX 79704

**Date** November 27, 1992

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**Submitted by** \_\_\_\_\_ **Date Rec.** \_\_\_\_\_

**Well No.** \_\_\_\_\_ **Depth** \_\_\_\_\_ **Formation** \_\_\_\_\_

**Field** \_\_\_\_\_ **County** \_\_\_\_\_ **Source** \_\_\_\_\_

**Standard Windmill** \_\_\_\_\_ Leonard Battery \_\_\_\_\_

**Resistivity .....** 1.77 @ 70° **0.060 @ 70°**

**Specific Gravity ..** 1.0029 @ 70° **1.1328 @ 70°**

**pH .....** 6.8 **7.5**

**Calcium .....** 3,076 **4,922**

**Magnesium .....** 652 **2,144**

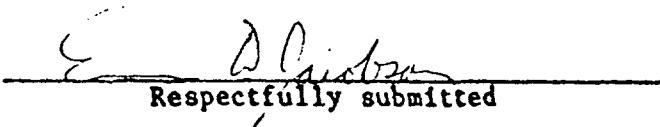
**Chlorides .....** 2,000 **116,000**

**Sulfates .....** 1,400 **1,200**

**Bicarbonates .....** 244 **305**

**Soluble Iron .....** 0 **0**

**Remarks:**



Respectfully submitted

**Analyst:** Eric Jacobson - Operations Engineer

HALLIBURTON SERVICES

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**Attachment G**

**List of all offset lease and surface owners that  
were set certified letters of notification.**

**NOTIFIED LEASE OWNERS**

Marbob Energy Corp.  
P. O. Box 217  
Artesia, NM 88210

Mack Energy Corp.  
P. O. Box 276  
Artesia, NM 88210

Tenneco Oil Co.  
6800 Park Ten Blvd.  
Suite 200 N.  
San Antonio, TX 78213

Amoco Production Co.  
P. O. Box 4072  
Odessa, TX 79760

Yates Drilling Company  
105 South Fourth Street  
Artesia, NM 88210

BLM  
P. O. Box 1778  
Carlsbad, NM 88220

**NOTIFIED SURFACE OWNERS**

Bogle Farms, Inc.  
P. O. Box 358  
Dexter, NM 88230

# Affidavit of Publication

No. 14183

STATE OF NEW MEXICO,

County of Eddy:

Gary D. Scott being duly sworn, says: That he is the Publisher of The Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and state, and that the hereto attached Legal Notice

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of

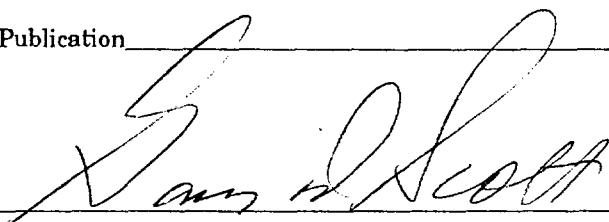
the state of New Mexico for 1 consecutive weeks on the same day as follows:

First Publication January 15, 1993

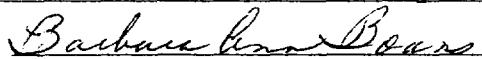
Second Publication \_\_\_\_\_

Third Publication \_\_\_\_\_

Fourth Publication \_\_\_\_\_



Subscribed and sworn to before me this 28th day  
of January 19 93



Notary Public, Eddy County, New Mexico

My Commission expires September 23, 1996

RECEIVED

2-2-93

Copy of Publication

## LEGAL NOTICE

SDX Resources, Inc., P.O. Box 50015, Midland, Texas 79704, has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for injection wells. The proposed injection zone for the "Leonard B. Fed. #5" located 1980' FNL & 1980' FEL of Section 33, Township 17 South, Range 29 East of Eddy County, New Mexico, is the Grayburg and San Andres formations with perforations from 2650' to 2956'. The proposed injection zone for the "Leonard B. Fed. #1" located 330' FNL & 1650' FEL of Section 33, Township 17 South, Range 29 East of Eddy County, New Mexico, is the Grayburg and San Andres formations with perforations from 2650' to 3048'. SDX Resources, Inc. intends to inject a maximum of 1000 bbls of produced formation water per day at a maximum of 530 psi. Interested parties must file objections with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico, 87501 within 15 days of this notice.

Published in the Artesia Daily Press, Artesia, N.M. January 15, 1993.

Legal 14183

**LEGAL NOTICE**

SDX Resources, Inc., P. O. Box 5061, Midland, Texas 79704, has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for injection wells. The proposed injection zone for the "Leonard Fed. #3" located 1980' FNL & 1980' FWL of Section 33, Township 17 South, Range 29 East of Eddy County, New Mexico, is the Grayburg and San Andres formations with perforations from 2654' to 2956'. The proposed injection zone for the "Leonard B Fed. #1" located 330' FNL & 1650' FEL of Section 33, Township 17 South, Range 29 East of Eddy County, New Mexico, is the Grayburg and San Andres formations with perforations from 2650' to 3048'. SDX Resources, Inc. intends to inject a maximum of 1000 bbls of produced formation water per day at a maximum of 530 psi. Interested parties must file objections with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico, 87501 within 15 days of this notice.

U.S. DEPT.  
November 1985  
(Formerly 9-331)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE  
(Other instructions on re-  
verse side)

Form approved.  
Product Bureau No. 10011-001-1  
Expires August 31, 1985  
5. LEASE DESIGNATION AND SERIAL NO.

LC 062407

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Leonard Federal

9. WELL NO.

3

10. FIELD AND POOL, OR WILDCAT

GR-Jackson-SR-Q-GR-SA

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Sec. 33, T17S, R29E

12. COUNTY OR PARISH 13. STATE

Eddy

NM

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3548 DF

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PCLL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON\*

SHOOTING OR ACIDIZING

ABANDONMENT\*

REPAIR WELL

CHANGE PLANS

(Other)

(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

(Other) Convert to Injector

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

1-15-93 Propose to convert to water injector thru existing perforations at 2654'-2956' in Grayburg and San Andres formations using 2 3/8" plastic coated tubing at 2550' with plastic coated R-4 packer at 2550'.

18. I hereby certify that the foregoing is true and correct

SIGNED *Barbara B. Wickham* TITLE Production Analyst

DATE 1/12/93

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

Form 18  
(Formerly 9-331)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE  
(Other instructions on reverse side)

Form approved  
by the Office of Management and Budget  
OMB Control No. 1645-0143  
Expires 4/30/95  
5. LEASE DESIGNATION AND SERIAL NO.  
LC 07459

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	OTHER <input type="checkbox"/>	7. UNIT AGREEMENT NAME Leonard B Federal
2. NAME OF OPERATOR SDX RESOURCES, INC.			8. FARM OR LEASE NAME Leonard B Federal
3. ADDRESS OF OPERATOR P. O. Box 5061 Midland, TX 79704-5061			9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Unit B, 330' FNL & 1650' FEL			10. FIELD AND POOL, OR WILDCAT GR-Jackson-SR-Q-GR-SA
14. PERMIT NO.		15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3555 DF	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 33, T17S, R29E
12. COUNTY OR PARISH 13. STATE Eddy NM			

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____ (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	<input type="checkbox"/>
(Other) Convert to Injector <input checked="" type="checkbox"/>			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

1-15-93 Propose to convert to water injector thru existing perforations at 2754'-3048' and added additional perforations at 2650'-2754' in the Grayburg and San Andres formations using 2 3/8" plastic coated tubing with a R-4 plastic coated packer set at 2550'.

18. I hereby certify that the foregoing is true and correct

SIGNED *Barbara J. Wickham* TITLE Production Analyst

DATE 1/12/93

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

P 429 461 598

**Receipt for  
Certified Mail**

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

Sent to  
**Yates Drilling Co.**

Street and No. 105 S. 4th Street	Postage
P.O. State and ZIP Code Artesia, NM 88210	\$ 190
Postage	Certified Fee
Special Delivery Fee	1.00
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.00
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 390
Postmark or Date	

PS Form 3800, June 1991

P 429 461 598

**Receipt for  
Certified Mail**

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

Sent to  
**Bogle Farms, Inc.**

Street and No. P. O. Box 358	Postage
P.O. State and ZIP Code Dexter, NM 88230	\$ 190
Postage	Certified Fee
Special Delivery Fee	1.00
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.00
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 390
Postmark or Date	

PS Form 3800, June 1991

P 429 462 152

**Receipt for  
Certified Mail**

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

Sent to  
**AMOCO Production Co.**

Street and No. P. O. Box 4072	Postage
P.O. State and ZIP Code Odessa, TX 79760	\$ 190
Postage	Certified Fee
Special Delivery Fee	1.00
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.00
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 390
Postmark or Date	

P 429 462 153

**Receipt for  
Certified Mail**

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

Sent to  
**Mack Energy Corp.**

Street and No. P. O. Box 276	Postage
P.O. State and ZIP Code Artesia, NM 88210	\$ 190
Postage	Certified Fee
Special Delivery Fee	1.00
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.00
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 390
Postmark or Date	

PS Form 3800, June 1991

P 429 462 149

**Receipt for  
Certified Mail**

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

Sent to  
**Marbob Energy Corp.**

Street and No. P. O. Box 217	Postage
P.O. State and ZIP Code Artesia, NM 88210	\$ 190
Postage	Certified Fee
Special Delivery Fee	1.00
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.00
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 190
Postmark or Date	

PS Form 3800, June 1991

P 429 461 597

**Receipt for  
Certified Mail**

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

Sent to  
**Carlisle, NM**

Street and No. P. O. Box 1778	Postage
P.O. State and ZIP Code Carlisle, NM 88220	\$ 290
Postage	Certified Fee
Special Delivery Fee	1.00
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.00
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 290
Postmark or Date	

PS Form 3800, June 1991

P 429 462 151

**Receipt for  
Certified Mail**

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

Sent to  
**Artesia, NM**

Street and No. P. O. Box 276	Postage
P.O. State and ZIP Code Artesia, NM 88210	\$ 190
Postage	Certified Fee
Special Delivery Fee	1.00
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.00
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 190
Postmark or Date	

PS Form 3800, June 1991

SDX RESOURCES, INC.

P.O. BOX 5061

MIDLAND, TEXAS 79704

(915) 685-1761

January 11, 1993

Marbob Energy Corp.  
P. O. Box 217  
Artesia, NM 88210

CERTIFIED RETURN RECEIPT

Re: Application for Authority  
to Inject  
Sec. 33, T17S, R29E  
Eddy County, New Mexico

Gentlemen:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) for SDX's Leonard Fed. #3 located in Unit F, Section 33, Township 17 South, Range 29 East and Leonard B Fed. #1 located in Unit B, Section 33, Township 17 South, Range 29 East of Eddy County, New Mexico.

Should you have any questions, please contact us at the letterhead address or call (915) 685-1761. Thank you for your consideration in this matter.

Best regards,

*John Pool*  
John Pool by (bw)  
Vice President

\bw

Enclosures

SDX RESOURCES, INC.

P.O. BOX 5061

MIDLAND, TEXAS 79704

(915) 685-1761

January 11, 1993

Tenneco Oil Co.  
6800 Park Ten Blvd.  
Suite 200 N.  
San Antonio, TX 78213

**CERTIFIED RETURN RECEIPT**

Re: Application for Authority  
to Inject  
Sec. 33, T17S, R29E  
Eddy County, New Mexico

Gentlemen:

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Best regards,

*John Pool*  
John Pool by *BW*  
Vice President

\bw

Enclosures

SDX RESOURCES, INC.  
P.O. BOX 5061  
MIDLAND, TEXAS 79704  
(915) 685-1761

January 11, 1993

Yates Drilling Company  
105 South Fourth Street  
Artesia, NM 88210

**CERTIFIED RETURN RECEIPT**

Re: Application for Authority  
to Inject  
Sec. 33, T17S, R29E  
Eddy County, New Mexico

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Best regards,

*John Pool*  
John Pool  
Vice President by *BW*

\bw

Enclosures

SDX RESOURCES, INC.

P.O. BOX 5061

MIDLAND, TEXAS 79704

(915) 685-1761

January 11, 1993

Mack Energy Corp.  
P. O. Box 276  
Artesia, NM 88210

**CERTIFIED RETURN RECEIPT**

Re: Application for Authority  
to Inject  
Sec. 33, T17S, R29E  
Eddy County, New Mexico

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Best regards,

*John Pool*  
John Pool  
Vice President by *BW*

\bw

Enclosures

SDX RESOURCES, INC.  
P.O. BOX 5061  
MIDLAND, TEXAS 79704  
(915) 685-1761

January 11, 1993

Amoco Production Co.  
P. O. Box 4072  
Odessa, TX 79760

**CERTIFIED RETURN RECEIPT**

Re: Application for Authority  
to Inject  
Sec. 33, T17S, R29E  
Eddy County, New Mexico

Gentlemen:

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Best regards,

*John Pool*  
John Pool  
Vice President *by [initials]*

\bw

Enclosures

SDX RESOURCES, INC.  
P.O. BOX 5061  
MIDLAND, TEXAS 79704  
(915) 685-1761

January 11, 1993

BLM  
P. O. Box 1778  
Carlsbad, NM 88220

**CERTIFIED RETURN RECEIPT**

Re: Application for Authority  
to Inject  
Sec. 33, T17S, R29E  
Eddy County, New Mexico

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Best regards,

*John Pool*  
John Pool by *BW*  
Vice President

\bw

Enclosures

SDX RESOURCES, INC.  
P.O. BOX 5061  
MIDLAND, TEXAS 79704  
(915) 685-1761

January 11, 1993

Bogle Farms, Inc.  
P. O. Box 358  
Dexter, NM 88230

**CERTIFIED RETURN RECEIPT**

Re: Application for Authority  
to Inject  
Sec. 33, T17S, R29E  
Eddy County, New Mexico

Gentlemen:

Enclosed please find a copy of form C-108. (Application for Authority to Inject) for SDX's Leonard Fed. #3 located in Unit F, Section 33, Township 17 South, Range 29 East and Leonard B Fed. #1 located in Unit B, Section 33, Township 17 South, Range 29 East of Eddy County, New Mexico.

Should you have any questions, please contact us at the letterhead address or call (915) 685-1761. Thank you for your consideration in this matter.

Best regards,

*John Pool*  
John Pool  
Vice President *by [initials]*

\bw

Enclosures

Bureau of Land Management  
(November 1983)  
(Formerly 9-331)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE  
(Other instructions on reverse side) *2-7473*

Expires August 31, 1985  
U. S. LEASE DESIGNATION AND SERIAL NO.  
*LC 07459 057454*

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

SDX RESOURCES, INC.

3. ADDRESS OF OPERATOR

P. O. Box 5061 Midland, TX 79704-5061

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

Unit B, 330' FNL & 1650' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3555 DF

10. FIELD AND POOL, OR WILDCAT  
GR-Jackson-SR-Q-GR-SA

11. SEC., T., R., M., OR Elk. AND  
SURVEY OR AREA

Sec. 33, T17S, R29E

12. COUNTY OR PARISH

Eddy

13. STATE

NM

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

SUBSEQUENT REPORT OF:

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other) Convert to Injector

WATER SHUT-OFF

REPAIRING WELL

ALTERING CASING

FRACTURE TREATMENT

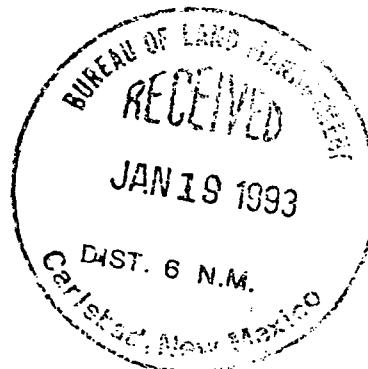
SHOOTING OR ACIDIZING

(Other)

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

1-15-93 Propose to convert to water injector thru existing perforations at 2754'-3048' and added additional perforations at 2650'-2754' in the Grayburg and San Andres formations using 2 3/8" plastic coated tubing with a R-4 plastic coated packer set at 2550'.



JAN 19 1993  
RECEIVED  
CARLSBAD AREA OFFICE  
NEW MEXICO

RECEIVED  
JAN 20 1993  
1-28-93

18. I hereby certify that the foregoing is true and correct

SIGNED *Barbara J. Wickham* TITLE Production Analyst

DATE 1/12/93

(This space for Federal or State office use)

APPROVED BY *Karen D. Glass* TITLE \_\_\_\_\_

DATE 1-28-93

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMISSIONS-TRIPPLICATE  
(Other instructions on reverse side)

in the appropriate  
Budget Bureau No. 1001-10  
Expires August 31, 1985

LEASE DESIGNATION AND SERIAL NO.

LC 062407 NM 62845

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT--" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR SDX RESOURCES, INC.	8. FARM OR LEASE NAME Leonard Federal
3. ADDRESS OF OPERATOR P. O. Box 5061, Midland, TX 79704-5061	9. WELL NO. 3
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Unit F, 1980' FNL & 1980' FWL	10. FIELD AND POOL, OR WILDCAT GR-Jackson-SR-Q-GR-SA
14. PERMIT NO.	11. SEC., T., R., M., OR RLK. AND SURVEY OR AREA Sec. 33, T17S, R29E
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3548 DF	12. COUNTY OR PARISH Eddy
13. STATE NM	

16.

**Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:

- TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other) Convert to Injector

- PEEL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANS

SUBSEQUENT REPORT OF:

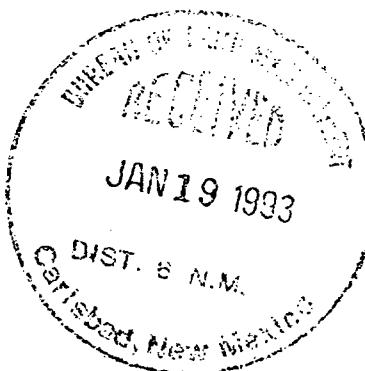
- WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other)

- REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

1-15-93 Propose to convert to water injector thru existing perforations at 2654'-2956' in Grayburg and San Andres formations using 2 3/8" plastic coated tubing at 2550' with plastic coated R-4 packer at 2550'.



18. I hereby certify that the foregoing is true and correct

SIGNED Barbara S. Wickham TITLE Production Analyst DATE 1/12/93

(This space for Federal or State office use)

APPROVED BY David Hollings TITLE Production Analyst DATE 1-28-93  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side