

APPLICATION FOR AUTHORIZATION TO INJECT

Case 10684

- I. Purpose: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☒ Storage
Application qualifies for administrative approval? ☒ yes ☐ no

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.

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 covert 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
Chuck Morgan (915) 685-1761
→ ARTESIA OFFICE 748-9724
FAX 748-9810
- 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'
PBTD: 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.
- (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

ATTACHMENT A

Page 2

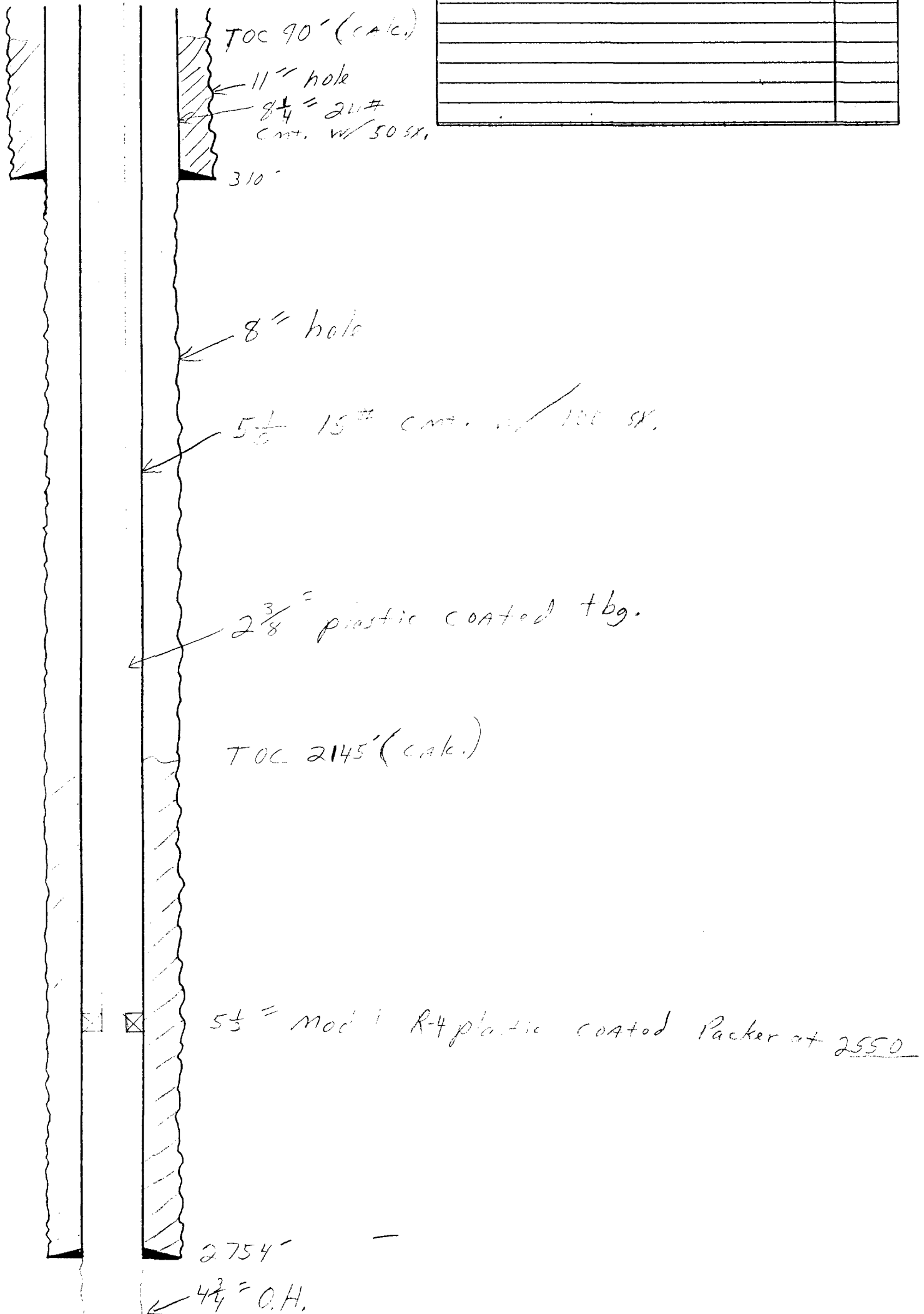
III. Well Data: Leonard B Fed. #1

- 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

[illegible]

WELL NAME: Leonard B Fed. #1 FIELD AREA: Grayburg Jackson
 LOCATION: 330' FNL & 1650' FEL Sec. 33 17S 29E
 GL: _____ ' ZERO: DE 2555 ' AGL: _____ '
 KB: _____ ' ORIG. DRLG./COMPL. DATE: 5/28/45 - 7/8/45 CASING PROGRAM:
 COMMENTS: _____

SIZE/WT./GR./CONN.	DEPTH SET
<u>8 1/4" 20# cmt. w/ 50 sx</u>	<u>310'</u>
<u>5 1/2" 15# cmt. w/ 100 sx</u>	<u>2754'</u>



- SKETCH NOT TO SCALE -

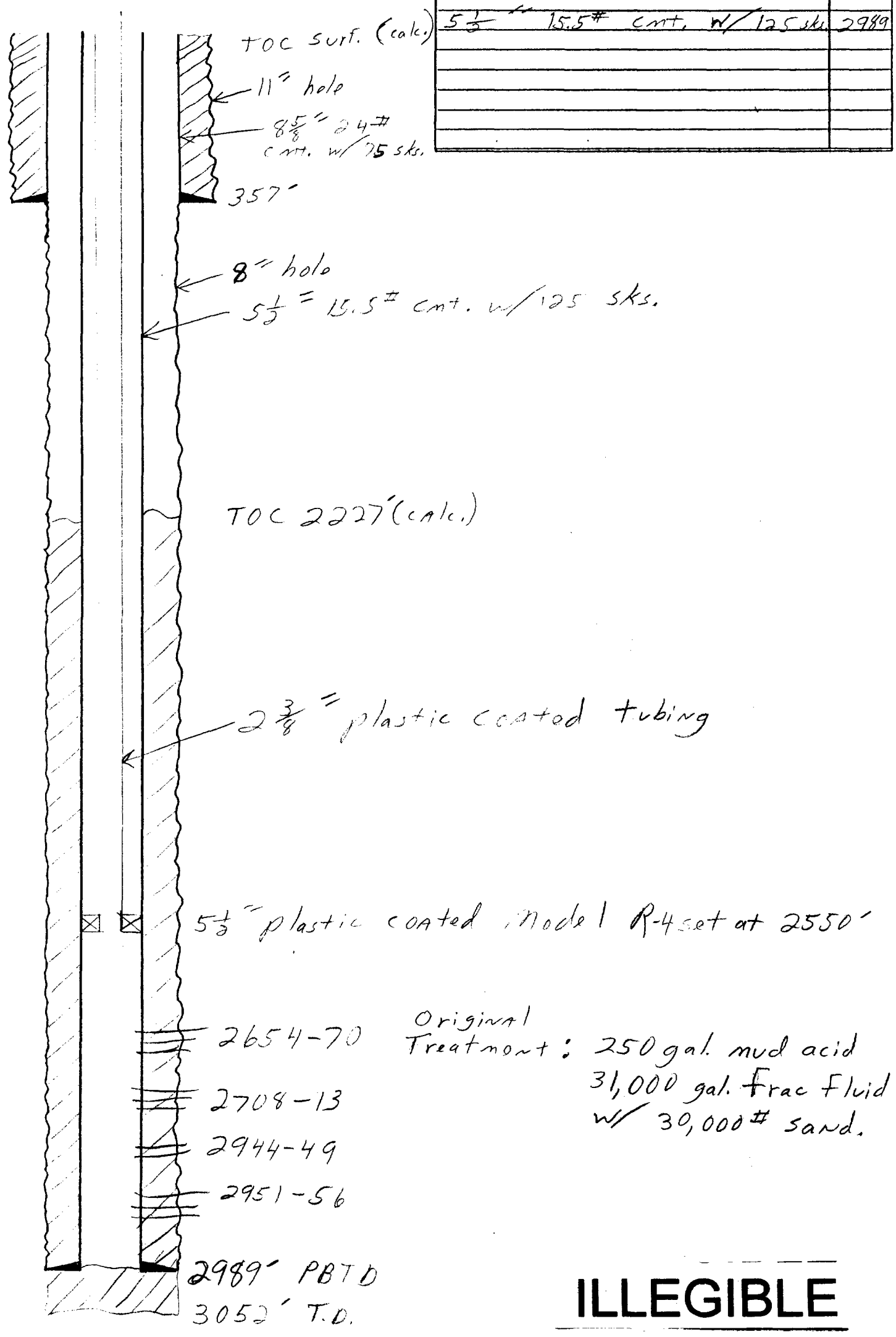
3048'

REVISED: 11/28/92

[illegible]

WELL NAME: Leonard Fed. #3 FIELD AREA: Grayburg Jackson
 LOCATION: Unit F 1980 FNL & FWL Sec. 33 17S 29E
 GL: _____ ZERO: EF 2540' AGL: _____
 KB: _____ ORIG. DRLG./COMPL. DATE: 9/23/58-10/27/58 CASING PROGRAM: _____
 COMMENTS: _____

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



ILLEGIBLE

- SKETCH NOT TO SCALE -

REVISED: 11/28/92

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

WELL NAME	OPERATOR	TYPE	SPUD	COMPLETION	T.D.	PROD. ZONE	PERFS	COMPLETION INFORMATION		
LEONARD B FED #1 B-33-17S-29E	SDX RESOURCES, INC	OIL	5-28-45	7-8-45	3048'	GRAYBURG SAN ANDRES	O.H.	8 1/4" 5 1/2" 2 3/8"	24# 15# TBG	310' 2754' PUMPING
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"	24# 14# TBG	353' 3135' 3039' PUMPING
LEONARD FED #2 E-33-17S-29E	SDX RESOURCES, INC	OIL	8-3-58	9-12-58	3041'	GRAYBURG SAN ANDRES	2670'-3008'	8 5/8" 5 1/2" 2 3/8"	24# 14# TBG	331' 3041' 2698' PUMPING
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"	24# 14# TBG	357' 2989' 2843' PUMPING
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"	28# 14# TBG	330' 2982' 2852' PUMPING
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"	24# TBG	344' 2232' PUMPING
LEONARD FED #5 L-33-17S-29E	SDX RESOURCES, INC	OIL	1-1-59	2-10-59	3101'	GRAYBURG SAN ANDRES	2560'-3018'	8 5/8" 5 1/2" 2 3/8"	28# 14# TBG	378' 3101' PUMPING
LEONARD FED #6 K-33-17S-29E	SDX RESOURCES, INC	OIL	1-14-59	2-25-59	3058'	GRAYBURG SAN ANDRES	2642'-3039'	8 5/8" 5 1/2" 2 3/8"	24# 15# TBG	366' 3058' 3000' PUMPING
LEONARD B FED #5 B-33-17S-29E	SDX RESOURCES, INC	OIL	4-29-92	9-1-92	3690'	GRAYBURG SAN ANDRES	2430'-3003'	8 5/8" 5 1/2" 2 3/8"	24# 15.5# TBG	322' 3690' 3011' PUMPING
OLD LOCO UNIT #22 H-32-17S-29E	MARBOB ENERGY	OIL	4-8-81	4-15-81	3517'	GRAYBURG SAN ANDRES	2355'-2830'	8 5/8" 4 1/2" 2 3/8"	24# 10.5# TBG	283' 3516' 2810' PUMPING
PERRY LEONARD #2	MARBOB ENERGY	OIL	3-9-78	3-10-78	2827'	GRAYBURG SAN ANDRES	2464'-2781'	8 5/8" 7" 5 1/2" 4 1/2" 2 3/8"	24# 15.5# 10.5# TBG	445' 2439' 1800' 2804' 2450' PUMPING

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	MARBOB ENERGY	OIL	12-4-85	12-31-85	4590'	GRAYBURG SAN ANDRES	2447'-3486'	8 5/8"	24# 296' 15.5# 4570' TBG 3506' PUMPING
O-28-17S-29E								5 1/2"	
								2 7/8"	
PERRY LEONARD #1 M-33-17S-29E	MARBOB ENERGY	OIL	2-24-44	6-1-44	2755'	GRAYBURG SAN ANDRES	O.H.	8 1/4"	385' 100 SX 2430' 100 SX PUMPING
								7"	
								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 2985' 125 SX PUMPING
								5"	
								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. 14# 3014' 125 SX PUMPING
							96' O.H.	5 1/2"	
								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
								13 3/8"	
FED 33 COM #2 C-33-17S-29E	TENNECO OIL CO	T.A.	7-22-79	1-15-80	9200'	NONE S.I.	9090'-9110'	8 5/8"	54.5# 348' 325 SX CIBP 9050' 24832# 2800' 1200 SX 8612'-8780' 5 1/2" 17-15.5# 400 SX CIBP 7650' CIBP AT 7650' W/35' CMT
								13 3/8"	
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'	9 5/8"	54.5# 394' 400 SX 32.3-36# 2930' 2000 SX 5 1/2" 15.5# 11179' 2878 SX P&A 11-30-87
								13 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"	24# 348' 50 SX 20# 2973" 100 SX PUMPING
								7	
								2 3/8"	TBG
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 20# 2873' 100 SX PUMPING
								7"	
								2 3/8"	TBG

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.	8 5/8" 7" 2 3/8"	290' 2750' 2780' 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'	8 5/8" 5 1/2" 2 7/8"	378' 4779' 3500' PUMPING
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'	8 5/8" 5 1/2" 2 7/8"	327' 3619' 3469' PUMPING
LEONARD ST. #4 P-28-17S-29E	MARBOB ENERGY	OIL	1946	1946	2932'	GRAYBURG SAN ANDRES	2405'-2424' O.H. 2783'-2932'	8 1/2" 7" 2 7/8"	300' 2783' TBG PUMPING
LEONARD ST. #3 O-28-17S-29E	MARBOB ENERGY	WIW	7-22-44	9-30-44	3063	GRAYBURG SAN ANDRES	O.H. 2750'-2904'	8 1/2" 7" 2 3/8" PLASTIC COATED W/PACKER 2	310' 2750' 80 SX
LEONARD ST. #4B M-27-17S-29E 660' FWL & 330' FSL	MARBOB ENERGY	P&A	4-9-62	4-26-62	6515'	P&A	P&A	8 5/8" 25 SX - 6435' 20 SX - 4450' 20 SX - 75'	800' 235 SX
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'	8 1/4" 7" 2 3/8"	455' 2941' TBG 3124' PUMPING
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'	8 5/8" 7"	300' 2880' 50 SX 100 SX PUMPING
LEONARD ST. #4 D-34-17S-29E 430' FNL & 990' FWL	YATES DRILLING CO	P&A	11-13-48	12-31-48	3060'	P&A	P&A	8" P&A 12-31-48 NO RECORDS	310'
LEONARD ST. #2 N-28-17S-29E	MACK ENERGY	OIL	2-26-44	4-30-44	2945'	GRAYBURG SAN ANDRES	O.H. 2605'-2945'	8 1/4" 7" 2 3/8"	305' 2605' TBG 2920' PUMPING
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" 5 1/2" 2 7/8"	296' 4570' TBG 3506' 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 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" 24# 344' 7" 2232' 2 3/8" TBG 50 SX 100 SX PUMPING
LEONARD FED #4	SDX RESOURCES, INC	OIL	11-11-58	2-2-59	2983'	GRAYBURG SAN ANDRES	2454'-2956'	8 5/8" 28# 330' 5 1/2" 14# 2982' 2 3/8" TBG 2852' 75 SX 150 SX PUMPING
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" 24# 357' 5 1/2" 14# 2989' 2 3/8" TBG 2843' 75 SX 125 SX PUMPING
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" 24# 353' 5 1/2" 14# 3135' 2 3/8" TBG 3039' 75 SX 150 SX 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' 8 5/8" 32# 3400' 5 1/2" 17-15.5# 11095' 2 3/8" TBG 10653' 300 SX 2700 SX 555 SX FLOWING
FED 33 COM #2 C-33-17S-29E	TENNECO OIL CO	T.A.	7-22-79	1-15-80	9200'	NONE S.I.	9090'-9110' CIBP 9050' 8612'-8780' CIBP 7650'	13 3/8" 54.5# 348' 8 5/8" 24&32# 2800' 5 1/2" 17-15.5# CIBP AT 7650' W/35' CMT 325 SX 1200 SX 400 SX
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' 7 20# 2973' 2 3/8" TBG 50 SX 100 SX 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' 7 20# 2873' 2 3/8" TBG 50 SX 100 SX PUMPING

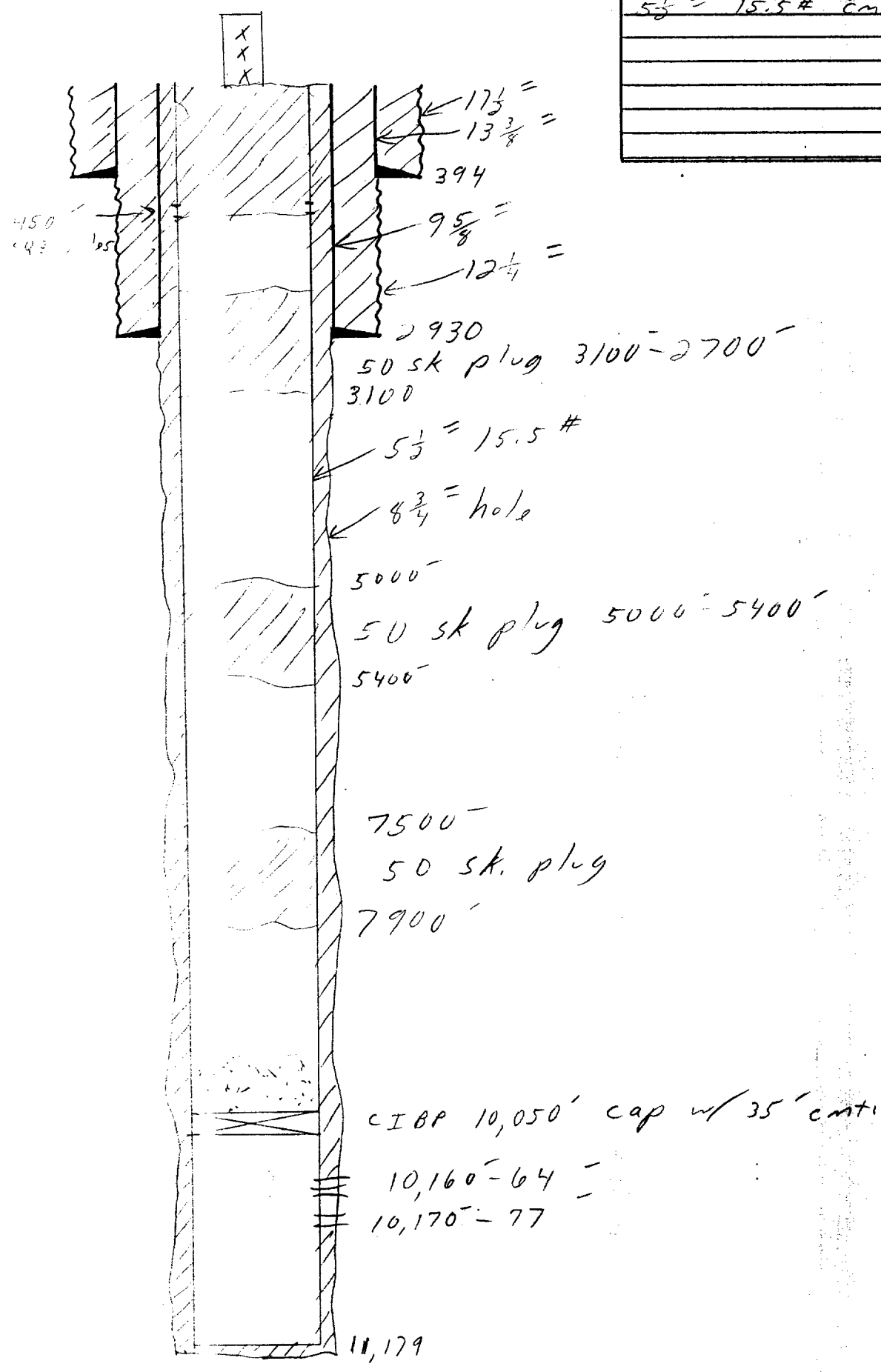
P & A WELL SCHEMATICS

Attachment D

WELL NAME: Empire South Deep Com #8 FIELD AREA: V.N.H., ST. 11
 LOCATION: 195 FSL & 1241 FHL. sec. 33 17S 29E
 GL: 547' ZERO: ' AGL: '
 KB: ' ORIG. DRLG./COMPL. DATE:
 COMMENTS:

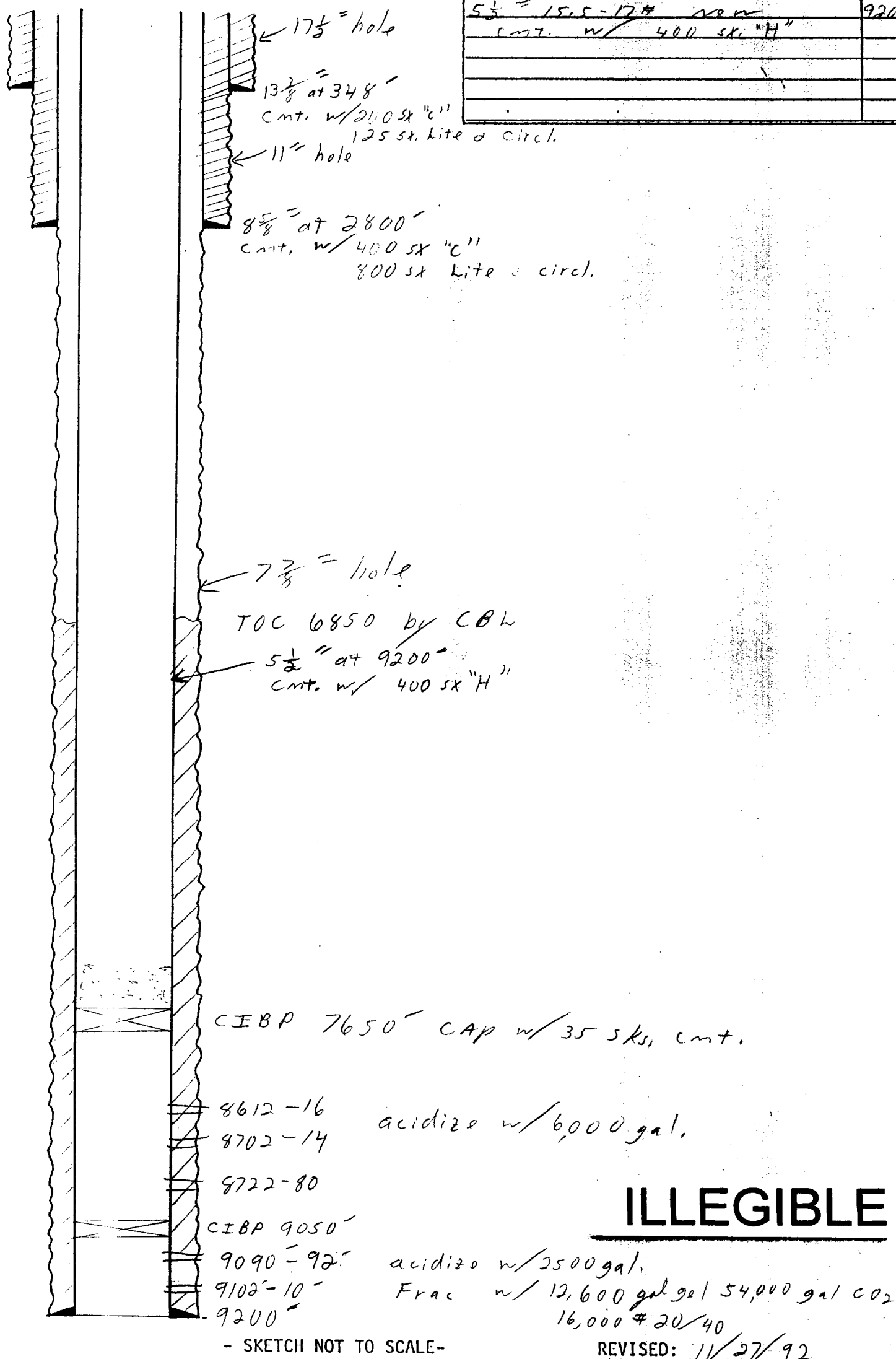
CASING PROGRAM

SIZE/WT./GR./CONN.	DEPTH SET
13 3/8" 54.5 cmt. w/ 400 sk.	394
9 5/8" 32.3-36# cmt w/ 2000 sk	2930
5 1/2" 15.5# cmt. w/ 2828 sk	11,179



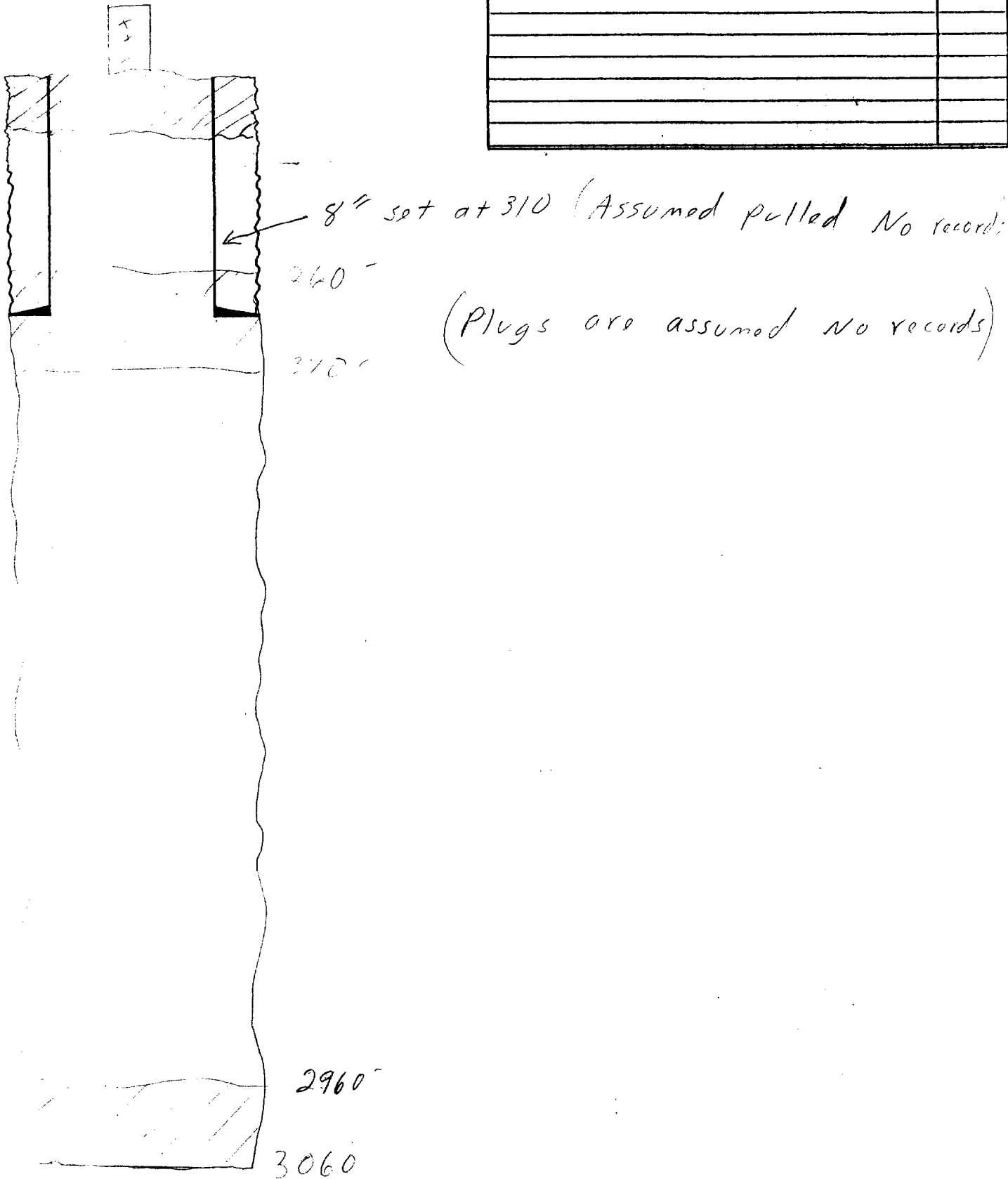
ILLEGIBLE

CASING PROGRAM:

[illegible]

WELL NAME: Leonard St. #4 FIELD AREA: Grayburg Jackson
LOCATION: W- D Sec. 34 17S 29E 430 FNL 2 990 FNL
GL: 3' 26' ZERO: AGL:
KB: ORIG. DRLG./COMPL. DATE: 11/13/48 12/31/48 CASING PROGRAM:
COMMENTS:

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



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:

Eric Jacobson
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

Date November 27, 1992

P. O. Box 5061

Midland, TX 79704

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:

Eric Jacobson
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 G

List of all offset lease and surface owners that
were set cetified 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

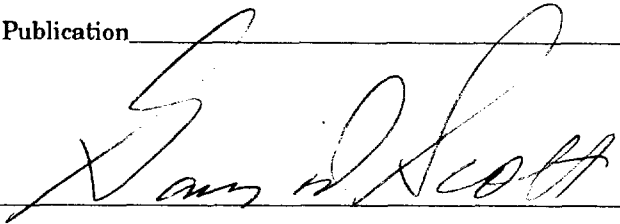
was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 consecutive weeks on the same day as follows:

First Publication January 15, 1993

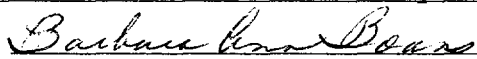
Second Publication _____

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

2-2-93
Copy of Publication

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. 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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

Form approved
Bureau No. 1001
August 11, 1968

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		5. LEASE DESIGNATION AND SERIAL NO. LC 062407
2. NAME OF OPERATOR SDX RESOURCES, INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 5061, Midland, TX 79704-5061		7. UNIT AGREEMENT NAME
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		8. FARM OR LEASE NAME Leonard Federal
14. PERMIT NO.		9. WELL NO. 3
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3548 DF		10. FIELD AND POOL, OR WILDCAT GR-Jackson-SR-Q-GR-SA
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 33, T17S, R29E
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.)*		12. COUNTY OR PARISH Eddy
18. I hereby certify that the foregoing is true and correct		13. STATE NM

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐	PULL OR ALTER CASING ☐
FRACTURE TREAT ☐	MULTIPLE COMPLETE ☐
SHOOT OR ACIDIZE ☐	ABANDON* ☐
REPAIR WELL ☐	CHANGE PLANS ☐
(Other) Convert to Injector ☒	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐	REPAIRING WELL ☐
FRACTURE TREATMENT ☐	ALTERING CASING ☐
SHOOTING OR ACIDIZING ☐	ABANDONMENT* ☐
(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 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 E. Wickham TITLE Production Analyst

DATE 1/12/93

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

***See Instructions on Reverse Side**

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PERMIT IN THIS FORM
(OTHER FORMS ARE IN
VERSE SIDE)

5. LEASE DESIGNATION AND SERIAL NO.

LC 07459

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

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Leonard B Federal

9. WELL NO.

1

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

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 ☐FRACTURE TREAT ☐MULTIPLE COMPLETE ☐SHOOT OR ACIDIZE ☐ABANDON* ☐REPAIR WELL ☐CHANGE PLANS ☐

(Other) Convert to Injector

☒

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐REPAIRING WELL ☐FRACTURE TREATMENT ☐ALTERING CASING ☐SHOOTING OR ACIDIZING ☐ABANDONMENT* ☐(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'.

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

SIGNED

Barbara L. Wickham

TITLE

Production Analyst

DATE

1/12/93

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

P 429 461 596

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
P.O. State and ZIP Code	Artesia, NM 88210
Postage	\$ 190
Certified Fee	1.00
Special Delivery Fee	
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	Tenneco Oil Co.
Street and No.	6800 Park 10 Blvd, Ste 200
P.O. State and ZIP Code	San Antonio, TX 78213
Postage	\$ 190
Certified Fee	1.00
Special Delivery Fee	
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
P.O. State and ZIP Code	Artesia, NM 88210
Postage	\$ 190
Certified Fee	1.00
Special Delivery Fee	
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 429 461 597

Receipt for Certified Mail

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

Sent to	BLM
Street and No.	P. O. Box 1778
P.O. State and ZIP Code	Carlsbad, NM 88220
Postage	\$ 290
Certified Fee	1.00
Special Delivery Fee	
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	\$ 496
Postmark or Date	

PS Form 3800, June 1991

P 429 461 596

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
P.O. State and ZIP Code	Dexter, NM 88230
Postage	\$ 190
Certified Fee	1.00
Special Delivery Fee	
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 429 462 153

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
P.O. State and ZIP Code	Odessa, TX 79760
Postage	\$ 190
Certified Fee	1.00
Special Delivery Fee	
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 429 462 151

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
P.O. State and ZIP Code	Artesia, NM 88210
Postage	\$ 190
Certified Fee	1.00
Special Delivery Fee	
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

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
Vice President

by *(BW)*

\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:

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
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

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 (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

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 (Be)

\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:

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 (Bn)

\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

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 

\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 Bu

\bw

Enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on
reverse side)

EXPIRES AUGUST 1, 1985
5. LEASE, DESIGNATION AND SERIAL NO.

LC 07459-057459

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 ☐		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR SDX RESOURCES, INC.		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 5061 Midland, TX 79704-5061		8. FARM OR LEASE NAME Leonard B Federal	
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		9. WELL NO. 1	
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT GR-Jackson-SR-Q-GR-SA	
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 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 ☐
FRACTURE TREAT ☐	MULTIPLE COMPLETE ☐
SHOOT OR ACIDIZE ☐	ABANDON* ☐
REPAIR WELL ☐	CHANGE PLANS ☐
(Other) Convert to Injector	☒

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐	REPAIRING WELL ☐
FRACTURE TREATMENT ☐	ALTERING CASING ☐
SHOOTING OR ACIDIZING ☐	ABANDONMENT* ☐
(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'.



CARL AREA H. 11 20 AM '93

RECEIVED

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

SIGNED Barbara E. Wickham TITLE Production Analyst

DATE 1/12/93

(This space for Federal or State office use)

APPROVED BY Harriet 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

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

Subject Bureau No. 10-1-1
Expires August 31, 1985
5. LEASE DESIGNATION AND SERIAL NO.
EC-062407 NM 2845
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.)

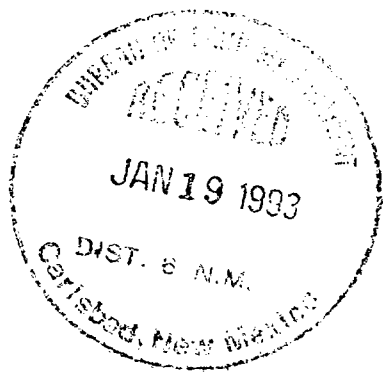
1. OIL WELL ☒ GAS WELL ☐ OTHER ☐		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR SDX RESOURCES, INC.		8. FARM OR LEASE NAME Leonard Federal
3. ADDRESS OF OPERATOR P. O. Box 5061, Midland, TX 79704-5061		9. WELL NO. 3
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* 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 BLK. 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:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF ☐	PULL 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) ☐	
(Other) Convert to Injector ☒		(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 <u>Barbara E. Wickham</u>	TITLE <u>Production Analyst</u>	DATE <u>1/12/93</u>
(This space for Federal or State office use)		
APPROVED BY <u>David A. Glass</u>	TITLE <u></u>	DATE <u>1-28-93</u>
CONDITIONS OF APPROVAL, IF ANY:		

*See Instructions on Reverse Side