

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. LC-057459
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR SDX Resources, Inc.		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR Post Office Box 5061, Midland, TX 79704		8. FARM OR LEASE NAME Leonard B Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 990' FNL and 2310' FEL, Unit Letter B At proposed prod. zone		9. WELL NO. 5
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 17 miles east of Artesia, NM		10. FIELD AND POOL, OR WILDCAT Grayburg-Jackson
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE 160	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 33-17S-29E
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, approx. 300'	19. PROPOSED DEPTH 3500'	12. COUNTY OR PARISH Eddy
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3544' Gr.	20. ROTARY OR CABLE TOOLS Rotary	13. STATE NM
22. APPROX. DATE WORK WILL START* 5-1-92		

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24#	350'	Sufficient to circulate w/approximately 350 sxs. Class "C"
7 7/8	5 1/2	15.5#	3600'	Sufficient to circulate w/approximately 800 sxs. Class "C/Poz"

Operator plans to drill well to a depth sufficient to test the San Andres formation for oil. If productive, 5 1/2" casing will be cemented at T.D. If non-productive, the well will be plugged in a manner consistent with federal regulations. Specifics are outlined in the following attachments: Location and Dedication Plat

Drilling Program:

Surface Use and Operating Program  
Exhibit A - Access Roads to Location  
Exhibit B - Existing Area Production  
Exhibit C - Location Layout  
Exhibit D - Production Facilities Layout  
Exhibit E - B.O.P. and B.O.P. Notes

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED DLB. BL TITLE Agent DATE 4-20-92  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 4-21-92  
CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

\*See Instructions On Reverse Side

Submit to Appropriate  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

3-16-92 Form C-102  
Revised 1-1-89

**OIL CONSERVATION DIVISION**  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

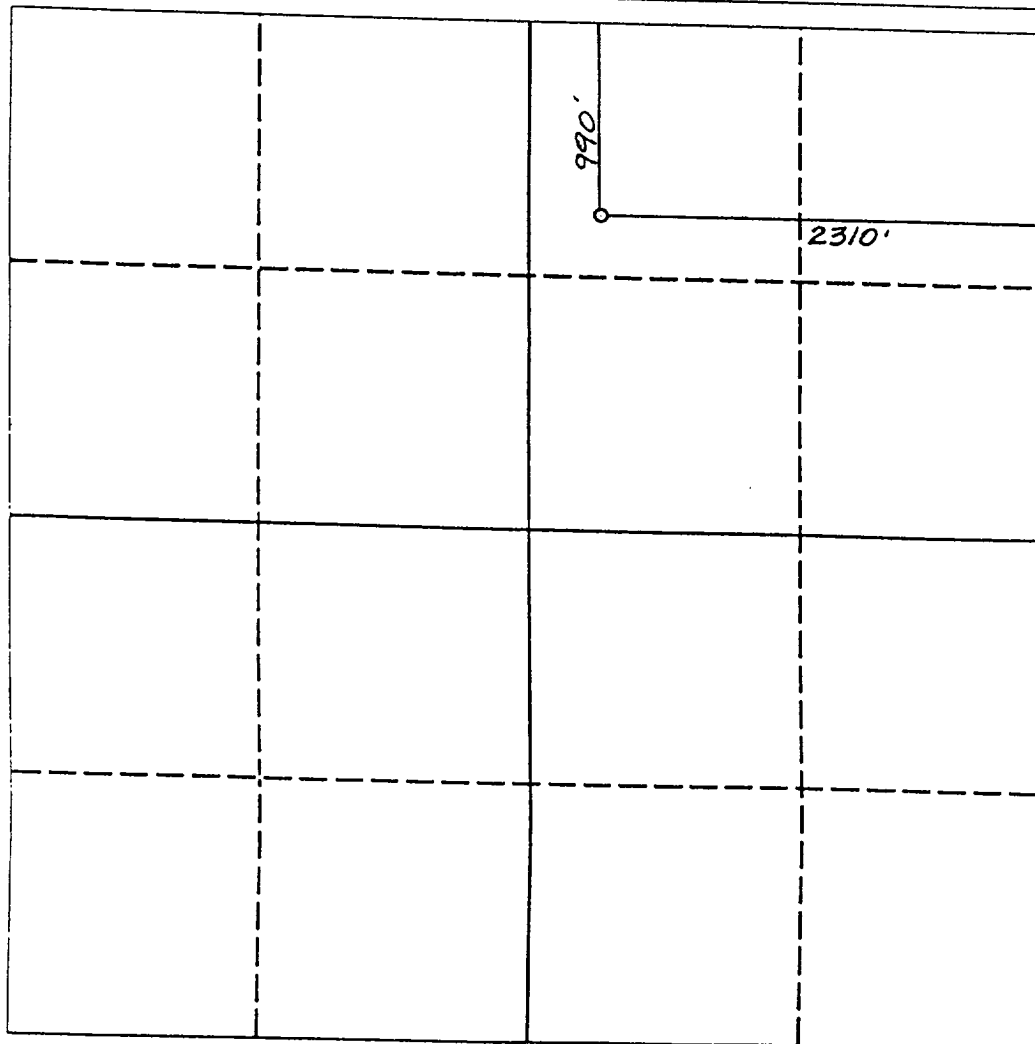
**DISTRICT I**  
P.O. Box 1980, Hobbs, NM 88240

**DISTRICT II**  
P.O. Drawer DD, Artesia, NM 88210

**DISTRICT III**  
1000 Rio Brazos Rd., Aztec, NM 87410

**WELL LOCATION AND ACREAGE DEDICATION PLAT**  
All Distances must be from the outer boundaries of the section

Operator <b>SDX RESOURCES INC.</b>			Lease <b>LEONARD B FEDERAL</b>		Well No. <b>5</b>
Unit Letter <b>B</b>	Section <b>33</b>	Township <b>17 SOUTH</b>	Range <b>29 EAST</b>	County <b>EDDY COUNTY, NM</b>	
Actual Footage Location of Well: <b>990</b> feet from the <b>NORTH</b> line and <b>2310</b> feet from the <b>EAST</b> line					
Ground level Elev. <b>3544.</b>		Producing Formation <b>SAND ANDES</b>		Pool <b>GRAYBURG JACKSON</b>	Dedicated Acreage: <b>1600</b> Acres
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.					
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).					
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.? <input type="checkbox"/> Yes <input type="checkbox"/> No If answer is "yes" type of consolidation _____ If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary). _____ No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.					



**OPERATOR CERTIFICATION**  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature **D.G.B. Jr.**  
Printed Name **Donald G. Becker, Jr.**  
Position **Agent**  
Company **SDX resources, Inc.**  
Date **March 31, 1992**

**SURVEYOR CERTIFICATION**  
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed **MARCH 12, 1992**  
Signature & Seal of Professional Surveyor **NEW MEXICO**  
Certificate No. **5412**  
NM REG. NO. **12**

### DRILLING PROGRAM

SDX RESOURCES, INC.  
LEONARD B FEDERAL #5  
S33-T17S-R29E  
EDDY COUNTY, NEW MEXICO

1. GEOLOGIC NAME OF SURFACE FORMATION: Permian

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Permian	Surface
Base of Salt	1000'
Seven Rivers	1350'
Queen	2050'
Loco Hills	2410'
Metex	2530'
Premier	2675'
San Andres Sand	2825'
San Andres	2960'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	100'	Fresh Water
Seven Rivers	1350'	Oil
San Andres	2725'	Oil

No other formations are expected to give up oil, gas, or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 8 5/8" casing at 350' and circulating cement to surface. Any potash will be protected by setting 5 1/2" casing and circulating back to surface. Producing zones will have cement circulated across them.

4. CASING PROGRAM:

<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>
8 5/8"	0 - 350'	24.0#	J-55	STC
5 1/2"	0 - 3600'	15.5#	J-55	STC

CEMENT PROGRAM:

<u>Size</u>	
8 5/8"	Surface casing cemented to surface with 350 sxs. of Class "C" plus 2% CaCl <sub>2</sub> and 1/4#/sx. Flocele.
5 1/2"	Production casing cemented with 800 sxs. of 50/50 Class "C" Poz plus .8% Halad 9 and 1/4#/sx. Flocele. This cement run is designed to bring TOC to surface.

5. PRESSURE CONTROL EQUIPMENT: The BOP shown on Exhibit D will consist of a hydraulically operated double ram-type preventer equipped with blind rams on top and 4 1/2" drill pipe rams on bottom. The BOP will be nipped up on the 8 5/8" casing and used continuously until TD is reached. All BOP equipment will be tested to 1000 psi before drilling out surface casing.

Pipe rams will be operationally checked every 24 hours. Blind rams will be checked on each trip out of the hole. A 2" kill line and a 2" choke line will be included in the drilling spool located below the ram-type preventer. Other accessories to the BOP equipment will include a kelly cock and floor safety valve (inside BOP) and the choke lines and choke manifold with a 3000 psi rating.

6. PROPOSED MUD PROGRAM:

Depth		0' - 350'	350' - 3500'	Mud Interval
Mud Type		Native	Cut Brine	LSND
Properties	MW	8.4 - 9.0 ppg	9.3 - 9.6 ppg	9.5 ppg
	pH	9.5 - 10.0	9.5 - 10.0	9.0
	WL	N/C	N/C	30 - 40 cc
	Visc	28 - 32 sec/qt	28 sec/qt	32-34 sec/qt

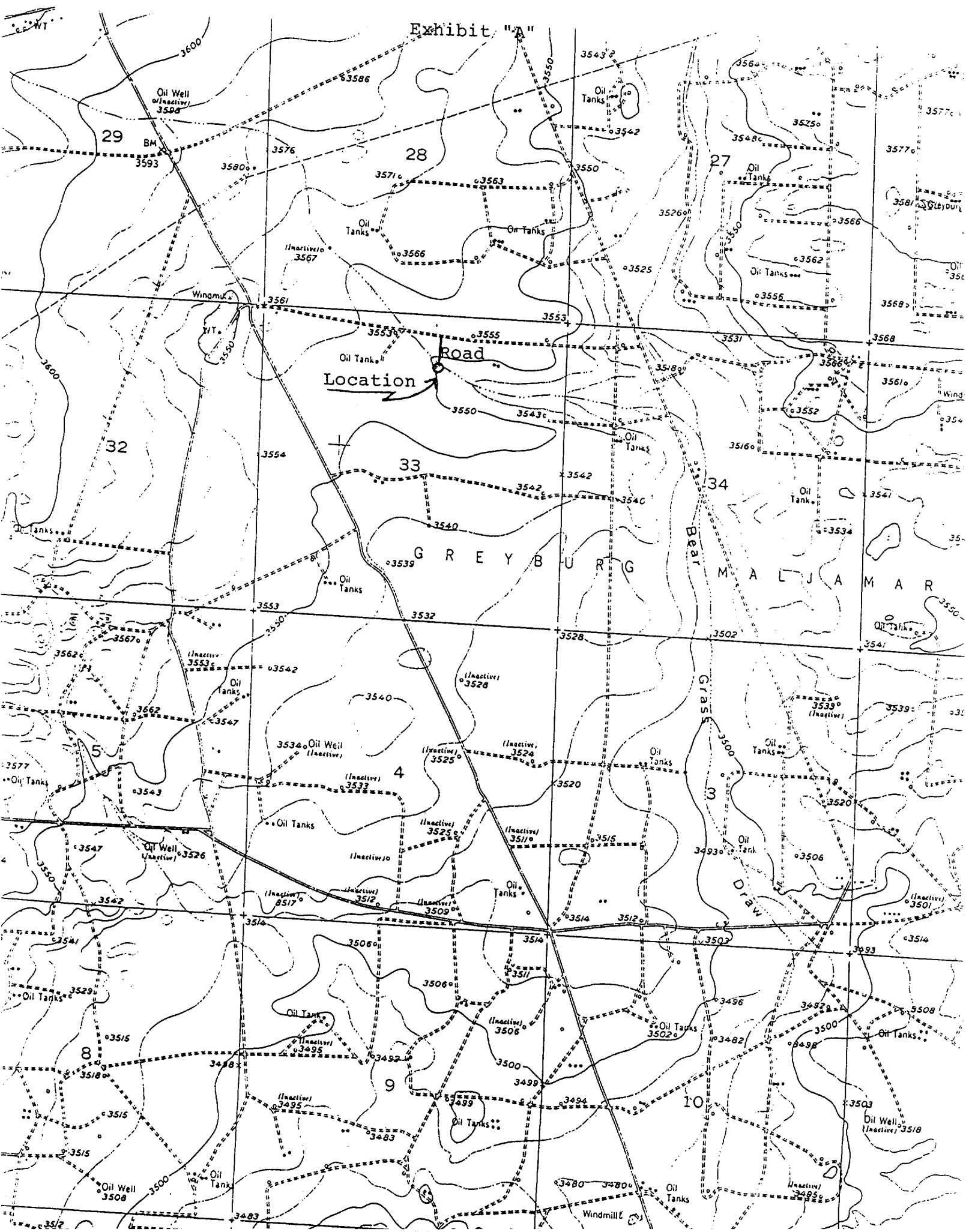
7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- A. A kelly cock will be kept in the drill string at all times.
- B. A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- C. A mud logging unit complete with an H2S detector will be continuously monitoring drilling penetration rate and hydrocarbon shows from 1350' to TD.

8. TESTING, LOGGING AND CORING PROGRAMS: No coring or DST's are planned. Electric logs will include a CDL-CN-GR, DLL-GR. Further testing procedures will be determined after the 5 1/2" production casing has been cemented at TD based on drill shows and log evaluation.

9. ABNORMAL PRESSURES, TEMPERATURES OR GASES: No abnormal pressures, temperature or gases are anticipated. BHT at TD is 90 degrees and estimated maximum BHP is 2500 psig.

10. ANTICIPATED STARTING DATE: It is planned that operations will commence about April 21, 1992. Duration of drilling, completion and testing operations should be 15 to 45 days.



[illegible]

Exhibit "C"

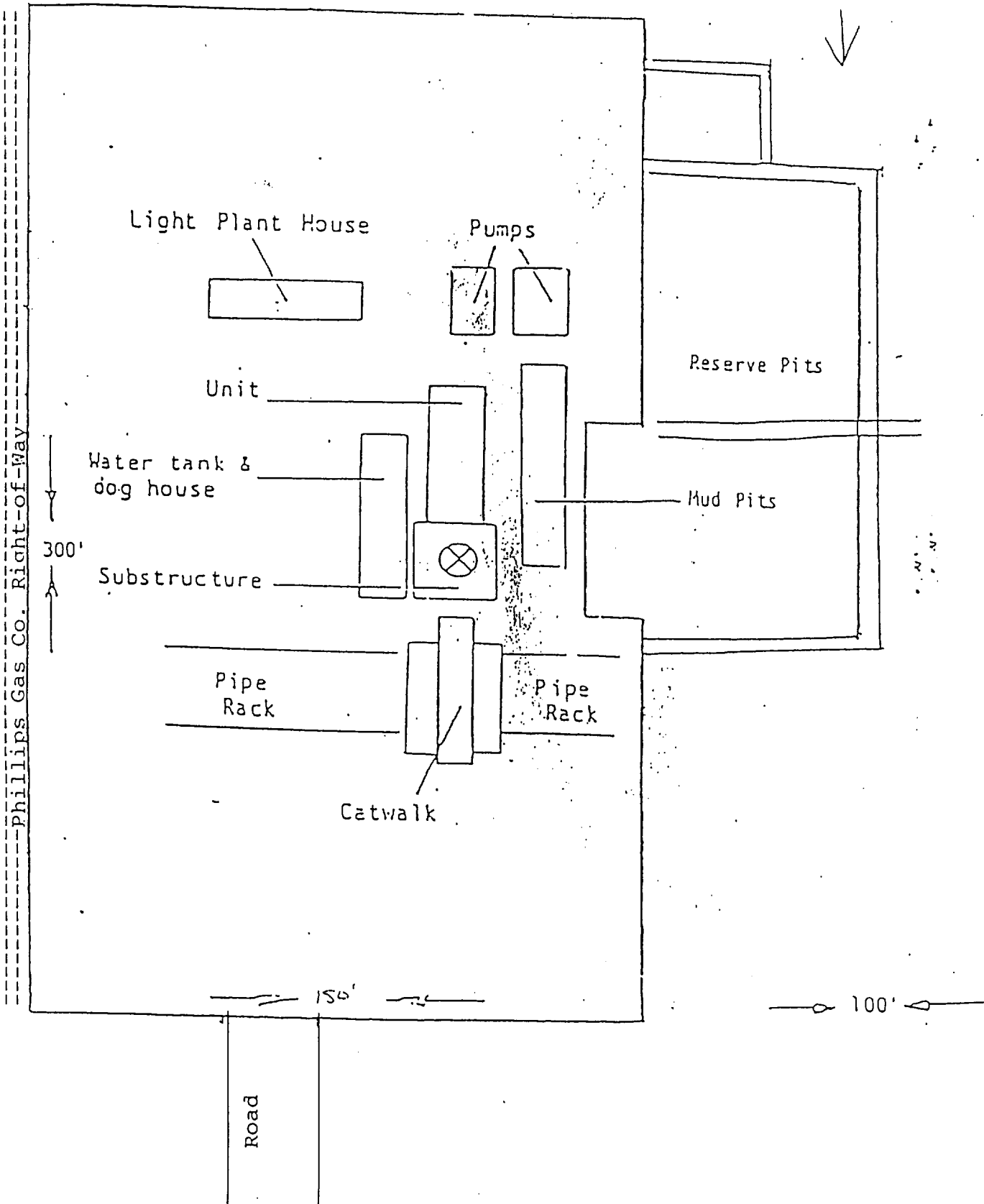
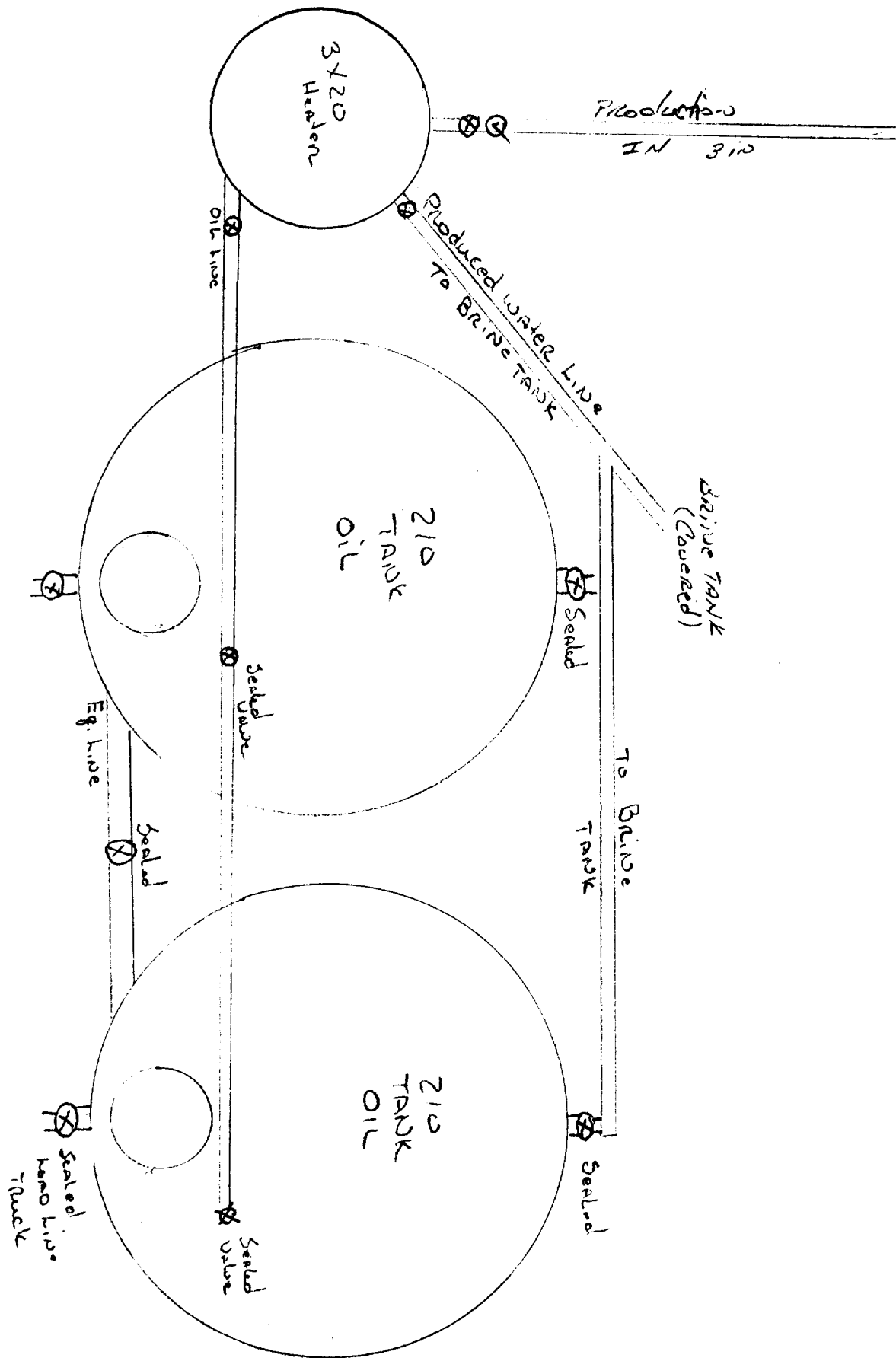
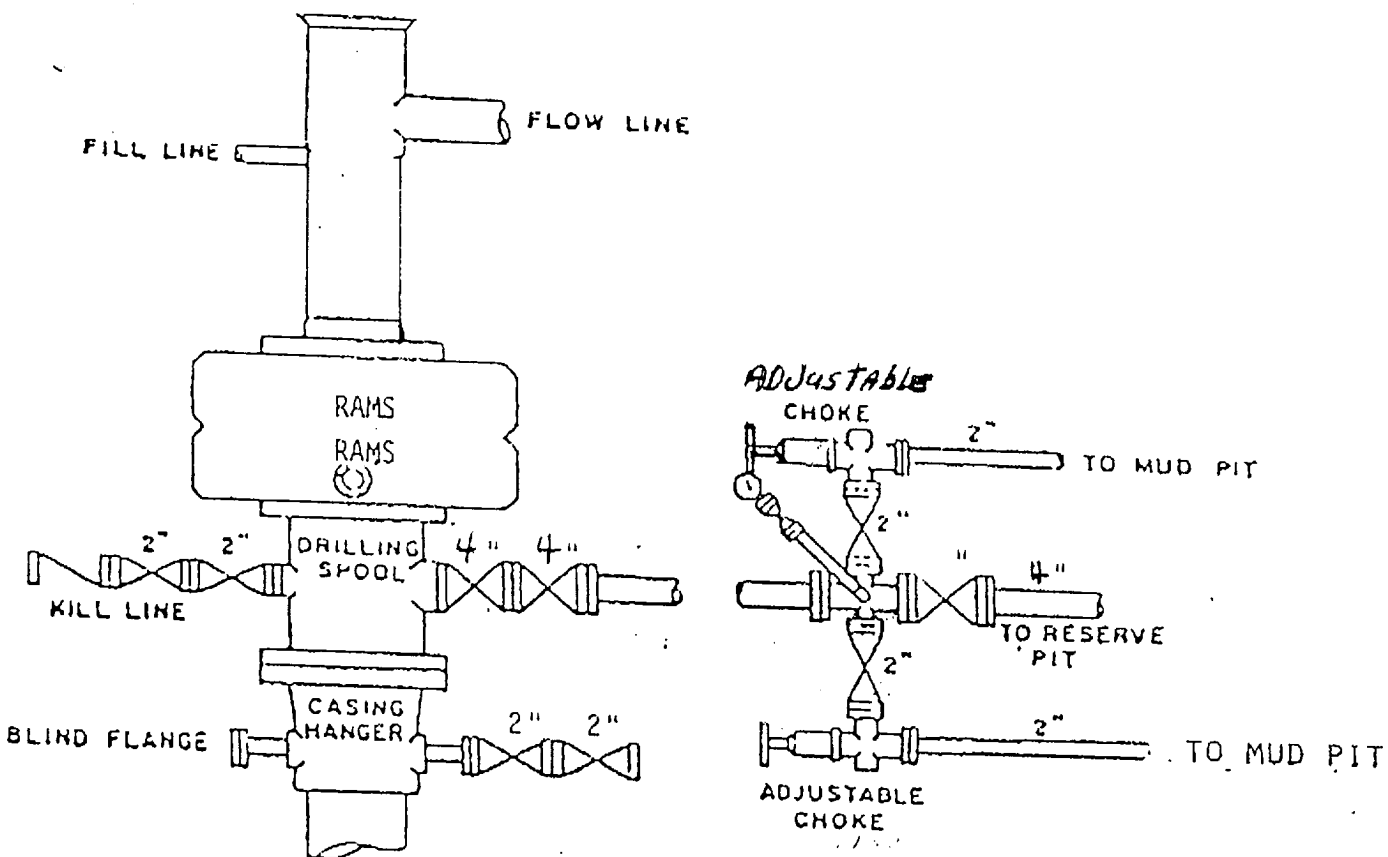


Exhibit "D"







## BOP STACK

3000 PSI WORKING PRESSURE

1. Drilling nipple to be constructed so that it can be removed without using welder through rotary table opening, with minimum ID equal to preventer bore.
2. Wear ring to be properly installed in head.
3. BOP and all fittings must be in good condition, 3000 psi WP minimum.
4. All fittings to be flanged.
5. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 3000 psi WP minimum.
6. All choke and fill lines to be securely anchored, especially ends of choke lines.
7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
8. Kelly cock on kelly.
9. Extension wrenches and hand wheels to be properly installed.
10. BOP control to be located as close to driller's position as feasible.
11. BOP closing equipment to include minimum 40 gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API standards.

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b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR <u>SDX Resources, Inc.</u>		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR <u>Post Office Box 5061, Midland, TX 79704</u>		8. FARM OR LEASE NAME <u>Leonard B Federal</u>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface <u>990' FNL and 2310' FEL, Unit Letter B</u> At proposed prod. zone		9. WELL NO. <u>5</u>
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <u>17 miles east of Artesia, NM</u>		10. FIELD AND POOL, OR WILDCAT <u>Grayburg-Jackson</u>
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE <u>160</u>	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>33-17S-29E</u>
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, <u>approx. 300'</u>	17. NO. OF ACRES ASSIGNED TO THIS WELL <u>40</u>	12. COUNTY OR PARISH <u>Eddy</u>
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>3544' Gr.</u>	19. PROPOSED DEPTH <u>3500'</u>	13. STATE <u>NM</u>
20. ROTARY OR CABLE TOOLS <u>Rotary</u>		22. APPROX. DATE WORK WILL START* <u>5-1-92</u>

23. PROPOSED CASING AND CEMENTING PROGRAM <u>No Water Basin</u>				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
<u>12 1/4</u>	<u>8 5/8</u>	<u>24#</u>	<u>350'</u>	<u>Sufficient to circulate</u>
<u>7 7/8</u>	<u>5 1/2</u>	<u>15.5#</u>	<u>3600'</u>	

Plan to drill well sufficient to test Seven Rivers, Queen, Grayburg and San Andres.

Pay zone will be selectively perforated and stimulated as needed for optimum production.

Attached are: 1. Well location and acreage dedication plat.  
2. Supplemental Drilling Data.  
3. Thirteen Point Program.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED D. G. Bl TITLE Agent DATE 3-31-92

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

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

Submit to Appropriate  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

3-16-92 Form C-102  
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

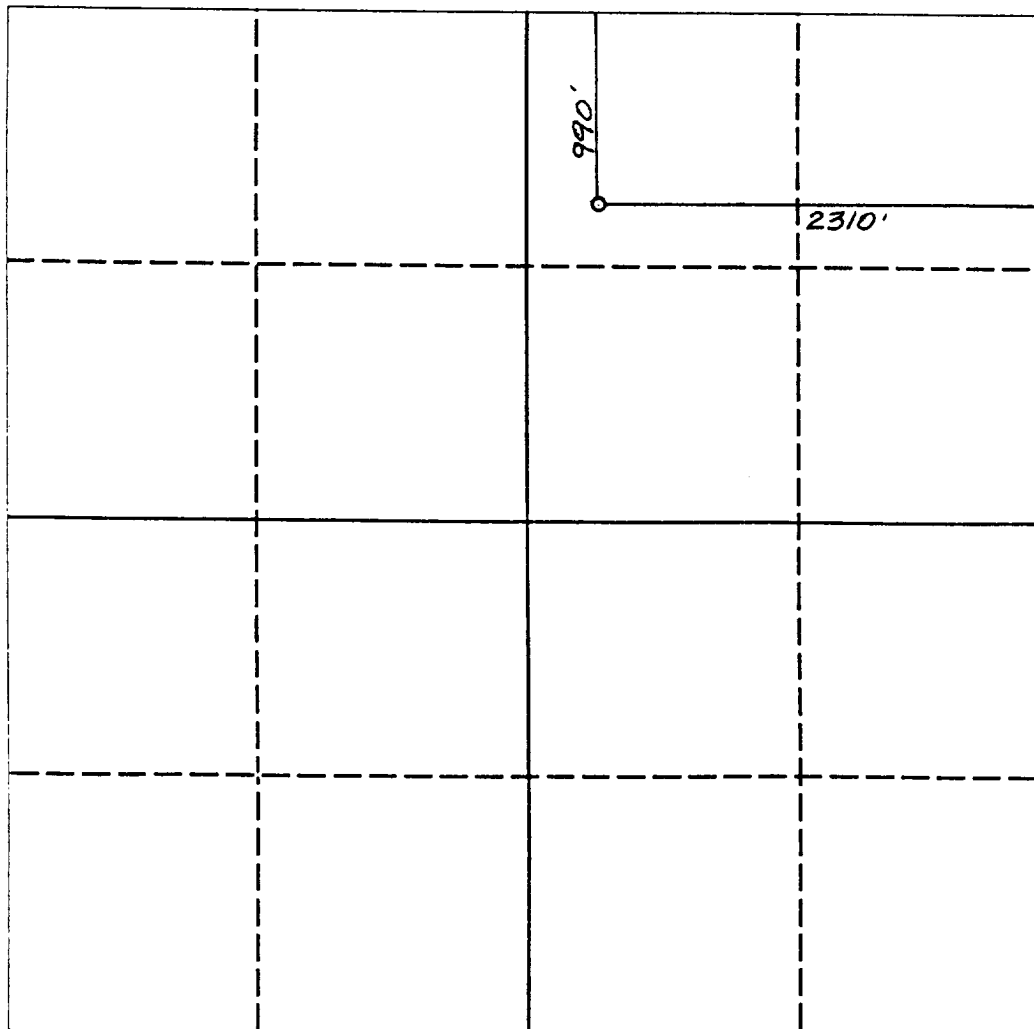
DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator <b>SDX RESOURCES INC.</b>			Lease <b>LEONARD B FEDERAL</b>		Well No. <b>5</b>
Unit Letter <b>B</b>	Section <b>33</b>	Township <b>17 SOUTH</b>	Range <b>29 EAST</b>	County <b>EDDY COUNTY, NM</b>	
Actual Footage Location of Well: <b>990</b> feet from the <b>NORTH</b> line and <b>2310</b> feet from the <b>EAST</b> line					
Ground level Elev. <b>3544.</b>	Producing Formation		Pool	Dedicated Acreage:  Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc?  
☐ Yes ☐ No If answer is "yes" type of consolidation \_\_\_\_\_  
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary). \_\_\_\_\_  
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief.

Signature **D.G.B. Jr.**  
Printed Name  
**Donald G. Becker, Jr.**  
Position  
**Agent**  
Company  
**SDX resources, Inc.**  
Date  
**March 31, 1992**

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
**MARCH 12, 1992**

Signature & Seal of Professional Surveyor  
**NEW MEXICO**  
**REGISTERED PROFESSIONAL SURVEYOR**  
**5412**  
**NM REAS. NO. 5412**

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

SUPPLEMENTAL DRILLING DATA

SDX RESOURCES, INC.  
LEONARD B FEDERAL #5  
S33-T17S-R29E  
EDDY COUNTY, NEW MEXICO

1. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Seven Rivers	1350'
San Andres	2725'

2. CASING DESIGN:

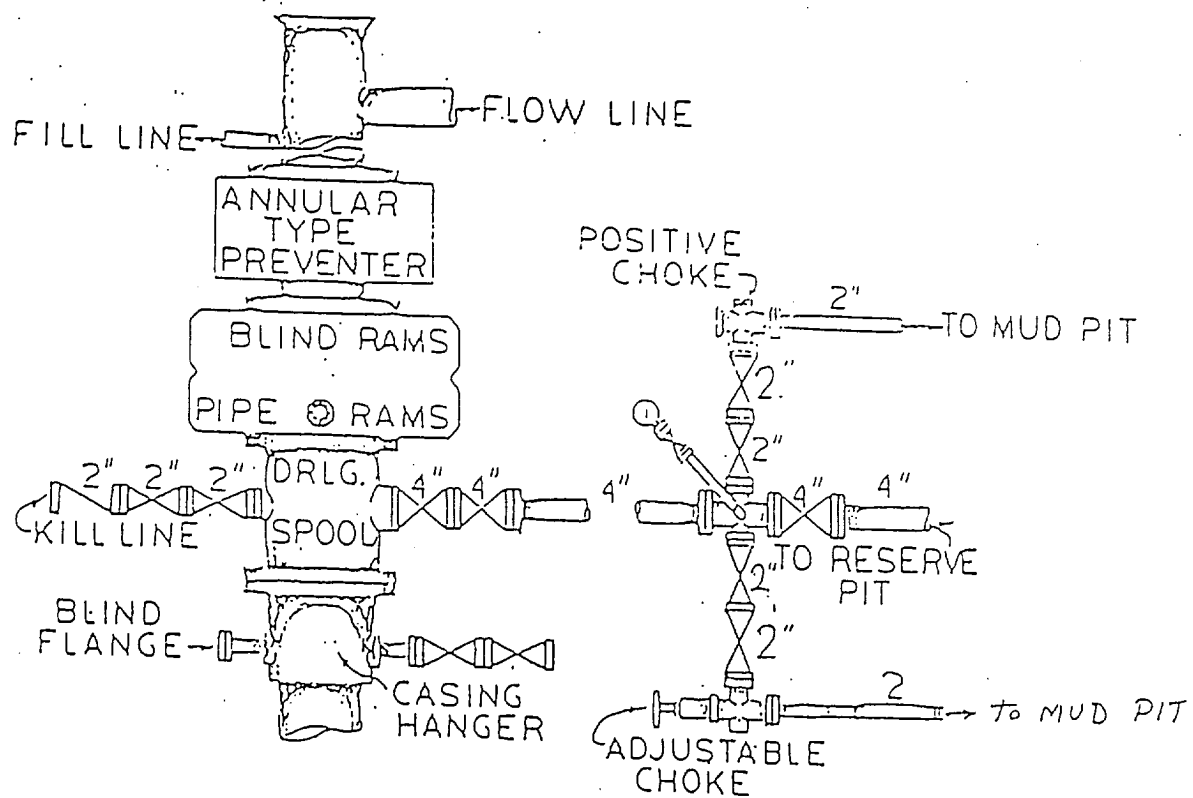
<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>
8 5/8"	0 - 350'	24.0#	J-55	STC
5 1/2"	0 - 3600'	15.5#	J-55	STC

3. PRESSURE CONTROL EQUIPMENT: An annular or a double ram-type preventer.

4. TESTING, LOGGING AND CORING PROGRAMS: No coring or DST's are planned. Electric logs will include a CDL-CN-GR, DLL-GR.

5. ABNORMAL PRESSURES, TEMPERATURES OR GASES: None anticipated.

6. ANTICIPATED STARTING DATE: It is planned that operations will commence about May 1, 1992. Duration of drilling, completion and testing operations should be 15 to 45 days.



### THIRTEEN POINT PROGRAM

1. EXISTING ROADS: Existing roads, which lead to the proposed drillsite, are shown on Exhibit "A".
2. PROPOSED NEW ROAD: Estimate 600' of new access road from existing road location.
3. LOCATION OF EXISTING WELLS: Existing wells in the vicinity of the proposed drillsite are shown on Exhibit "B".
4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
  - A. This is a producing lease. The nearest well is approximately 300 feet away.
  - B. If the new well is productive, existing production and storage facilities will be upgraded.
5. LOCATION AND TYPE OF WATER SUPPLY: It is not planned to drill a water supply well. Water for leasehold operations will be purchased from a commercial water hauler.
6. SOURCE OF CONSTRUCTION MATERIALS: Materials needed for construction of the proposed well pad will be obtained on site and purchased from an approved site.
7. METHODS OF HANDLING WASTE DISPOSAL:
  - A. Drill cuttings will be disposed of in the drilling pits.
  - B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
  - C. Water produced during tests will be disposed of in the drilling pits or hauled to an approved disposal facility.
  - D. Oil produced during tests will be stored in test tanks until sold.
  - E. Trash, waste paper, garbage, and junk will be stored in a trash container and hauled off. All waste material will be contained to prevent scattering by the wind.
  - F. All trash and debris will be removed from the wellsite within 45 days after finishing drilling and/or completion operations.
8. ANCILLARY FACILITIES: No permanent camp or airstrip is planned. A trailer will be on location during drilling and completion operations.
9. WELLSITE LAYOUT: The dimensions and relative location of the drill pad, mud pit, and trash pit with respect to the well bore and existing pads are shown in Exhibit "C".

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. After abandonment, all equipment, trash and junk will be removed and the location cleaned. Any special rehabilitation and/or special revegetation requirements will be complied with and accomplished as expeditiously as possible.

11. OTHER INFORMATION:

- A. Topography: The wellsite is at an elevation of 3544'. The terrain surrounding the location slopes toward the west. The area is characterized by sand deposits with localized dune rises and a few deflation basins.
- B. Soil: Top soil at the wellsite is sandy.
- C. Flora: Flora consists primarily of scrub grass and other desert weeds.
- D. Fauna: No wildlife was observed, however, fauna for this type of habitat normally consists of lizards, snakes, rabbits, quail, coyotes, dove and other small birds.
- E. Ponds & Streams: None.
- F. Residences & Other Structures: House located within one mile to the west.
- G. Archaeological, Historical & Cultural Sites: None were observed.

12. OPERATOR'S REPRESENTATIVE: Representative responsible for assuring compliance with the approved drilling program:

Lessee:  
SDX Resources, Inc.  
P. O. Box 5061  
Midland, TX 79704

Representative:  
Donald G. Becker, Jr.  
Morexco, Inc.  
P. O. Box 481  
Artesia, NM 88211-0481

13. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar

with the conditions which presently exist; that the statements made in this plan are, to the best of knowledge true and correct; and that the work associated with the operations proposed herein will be performed by SDX Resources, Inc. and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

March 31, 1992

D.G.B. Jr.

Donald G. Becker, Jr.  
Agent for SDX Resources, Inc.





Exhibit "B" - Main Res

Grayburg, Oklahoma

West Co. of Unit

Marbob (OPER)

ANADARKO (OPER)

Tr. 10-A

Tr. 11

Tr. 12

Tr. 13

Tr. 14

Tr. 15

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Exhibit "C"

