UNITED STATES **DEPARTMENT OF THE INTERIOR**

New Mexico Oil Conservation

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OMB NO. 1004-0136 Expires: February 28, 1995

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1a TYPE OF WORK	DRILL 🔀	DEEPEN				
b. TYPE OF WELL	DRILL (A)	DEEPEN			7. UNIT AGREEMENT NAM SCR 434	
OIL C	GAS WELL X OTHER		SINGLE MULT			
2. NAME OF OPERATOR	THE CONTRACT OF THE CONTRACT O		ZONE ZONE		8. FARM OR LEASE NAME, Jalmat Federal (
SDX Resources,	Inc.		OCDID NO 7	161	9. API WELL NO.	
3. ADDRESS AND TELEPHO			. OGRID NO. <u>204</u>	2//	30-025-	3477
	idland, TX 79704		ERTY NO. 239	57 —	10. FIELD AND POOL, OR	
	port location clearly and in accordanc SL 760' FWL Unit L		CODE 792 40	00	Jalmat Ga	
At proposed prod. zon:		67F.1	7	34774	11. SEC., T., R., M., OR BLE AND SURVEY OR AREA	
Same		APIN	0.50-025	34117	Sec. 31, T24S,	, R37E
	D DIRECTION FROM NEAREST TO	WN OR POST OFFICE*			12. COUNTY OR PARISH	13. STATE
3 miles N of Jal,					Lea	NM
15. DISTANCE FROM PROF LOCATION TO NEARES PROPERTY OR LEASE L (Also to nearest drig. unit	r	560	NO. OF ACRES IN LEASE 120-76.25	17. NO. OF A		114.41
18. DISTANCE FROM PROF TO NEAREST WELL, DR	ILLING COMPLETED		. PROPOSED DEPTH	20. ROTARY	OR CABLE TOOLS	11811
OR APPLIED FOR, ON T	HIS LEASE, FT.	2240	3200		Rotary	
21. ELEVATIONS (Show who	ether DF, RT, GR, etc.)				22. APPROX. DATE WORK 11/01/99	KWILL START*
23.		PROPOSED CASING	AND CEMENTAL CORA	ANTEA	TEN WATER	DAOM
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7-7/8"	4-1/2 - 5-1/2"	9.5 - 17#	3200'		400 sx Lite + 200	2/4
Plan to drill 12-1/4 & circ cmt. Perf Ya	" hole to appx 600'. Set ates gas zone & stimulate	8-5/8" surface csg. e as necessary for o	Circ Class C cmt. Drill 7- optimum production.	7/8" hole to		r 5-1/2" csg
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District I

1825 N. French Dr., Hobbs, NM 88240

District II

811 South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources

Form C-102

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe. NM 87505

Revised March 17, 1999

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT

- 1	API Numb		Pool Code		
	SD-025~	34779	79240	Jalmat Gas	¹ Pool Name
	Property Code			Property Name	
ı	23984	JALMAT	FEDERAL	A repetty Name	Weil Number
ſ	OGRID No.			Operator Name	2
	020451	SDX RE	SOURCES, INC.	Operator Name	Elevation
-					3241.
r	*10		'' St	urface Location	
-1	UL or lot no. Section	Tewaship		Comment of the Commen	

Feet from the East/West line 24-S County 1650 SOUTH 760 WEST ¹¹ Bottom Hole Location If Different From Surface LEA UL or let no. Section Township Let idn Feet from the North/South line Feet from the East/West line County

Dedicated Acres joint or Infill Consolidation Code Order No. 120 R-6245

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR

	NON-STANDARD UNIT HAS B	EEN APPROVED BY THE DIVISION
16		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and
		complete to the best of my knowledge and belief
		Bonnie atwater
		Signature Bonnie Atwater
		Printed Name Regulatory Tech.
		Title 9/23/99 Date
		18SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was
		plotted from field notes of actual surveys made by me
760		or under my supervision, and that the same is true and correct to the best of my belief.
		SEPTEMBER F.D. 1999
1650'		Date of Survey MEX Signature and Statistic Processions and Statistic Statistics Statisti
		ComMM. PERSPS. 14.12
6-255-376	ЕХНІВ	

NEW 'E' O OIL CONSERVATION COMMISSION WELL JOA HON AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

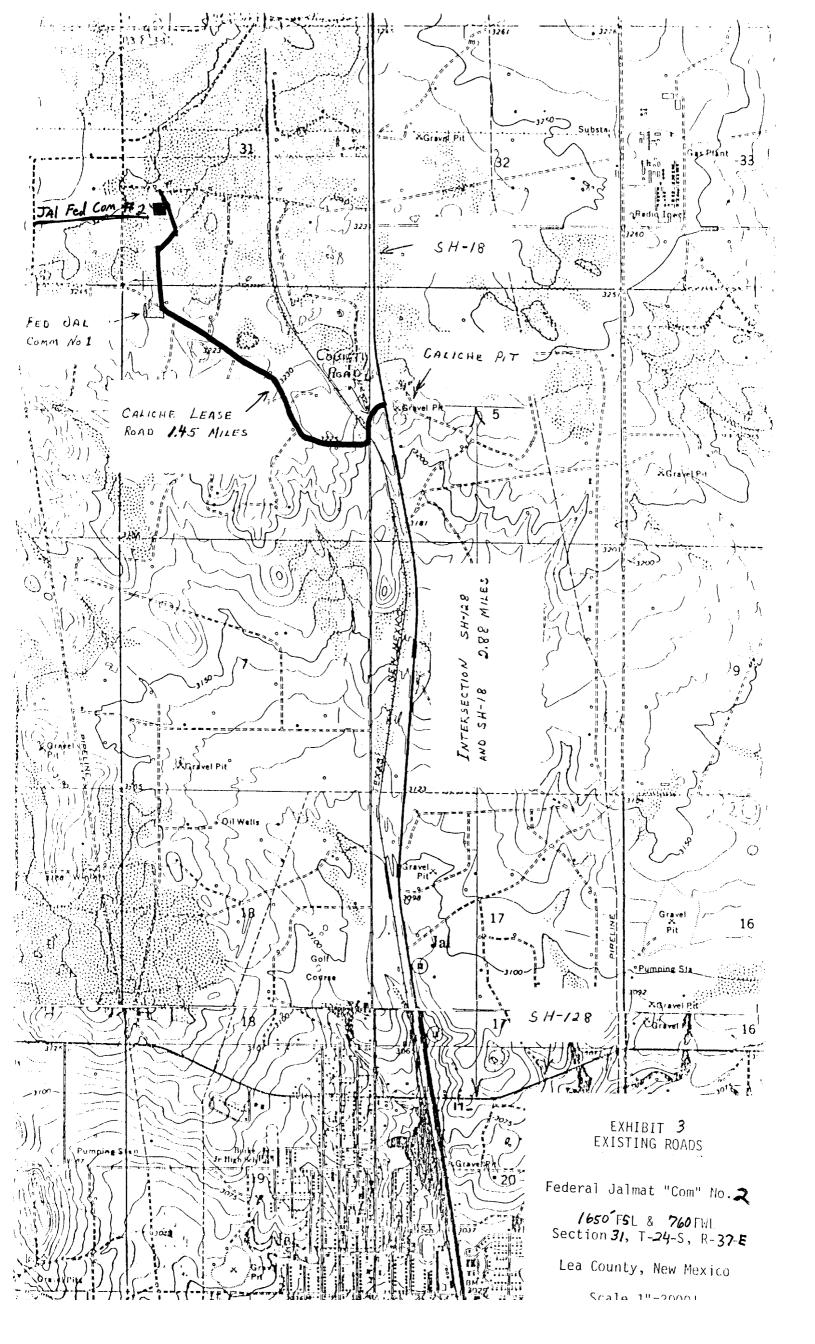
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Operator —		Lec				Well No.
Doyle Hartman			ederal Jalmat TRanja			1
	25\$		37E	County	2	
Actual Location			1	<u> </u>	α	
	t from the North	line and	660 fc	of from the	West	Ilno
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	1		Jalmat			120 Apres
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X Yes	No If answer is "	yes;" type of co	nsolidation			
If answer is "r this form if nec	o;† list the owners and	d tract descripti	ons which have ac	ctually been	n consolidated.	(Use reverse side of
	ill be assigned to the w	ell until all inte	crests have been o	onsolidate	d (by sommuni	liantian materials
rorcea-pooring,	or otherwise) or until a	non-standard un	it, eliminating suc	h interests	, has been appr	oved by the Commis-
sion.						
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	Federal Leas	e No. NM-12	610			
- #2	W/2 SW/4 Section (80 acres or	tion 31, 1-2	4-S, R-37-E roration unit	,]]		that the information con-
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,50			; [1	Larry Q. Y	amy
		· — — — -			Name November	
		- 1 - 2	1	-	Larry Nermy	r
	l 31-√	24-37	1		Engineer	
	_ ,		 		Company Doyle Hartma	an, Oil Operator
			}		January 22,	1980
13	Federal Lease	No. LC-055	546 i			
(over) tt	NW/4 NW/4 Sec	ction 6, T-2	5-S, R-37-E		I hereby certify	that the well location
17 /	40 acres of 3	3.333% of p	roration unit			at was plotted from field
	RoyaltyUnit 12.5% Royalty	ed States o	f America		notes of actual	surveys made by me or
	12:3% (toyalty	Incerest	1		•	ision, and that the same
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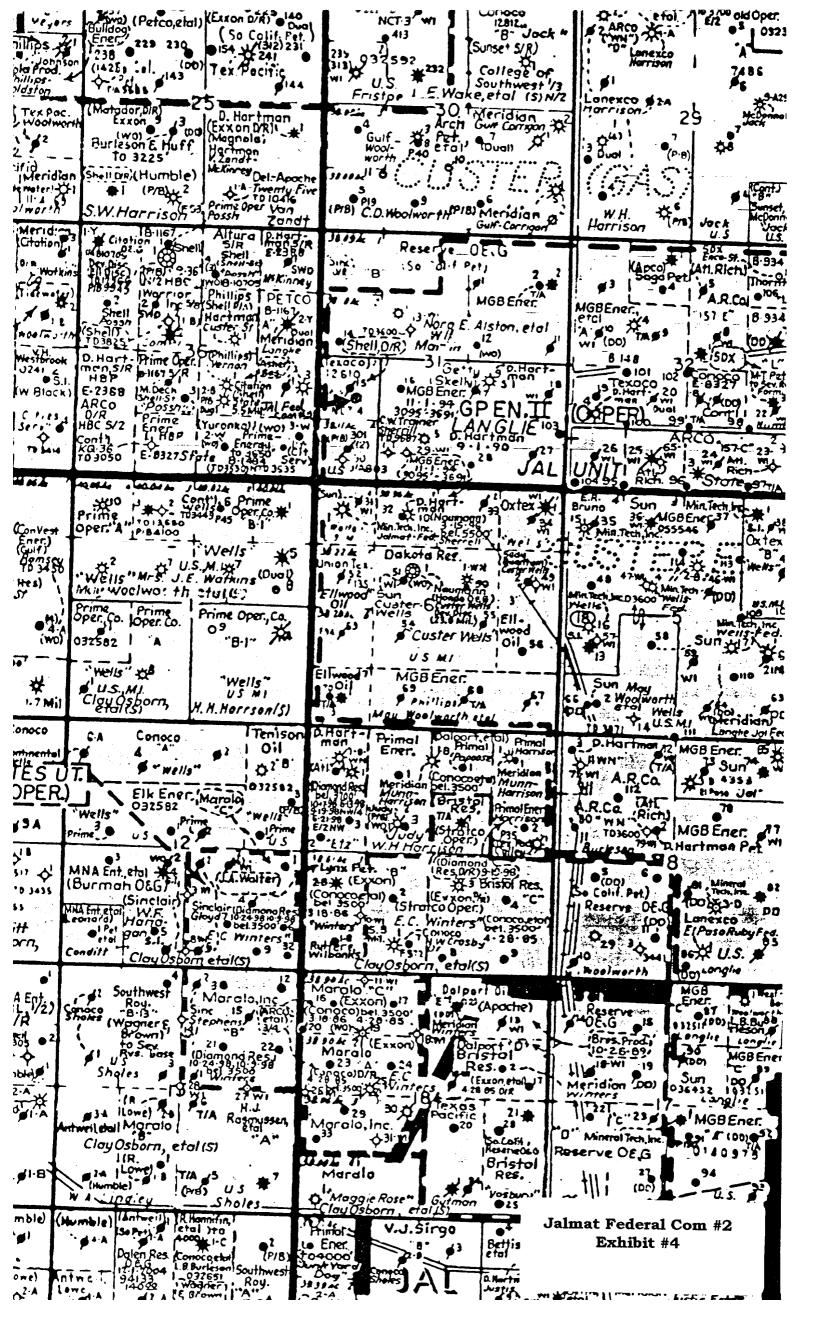
EXHIBIT #2

WELL LOCATION AND ACTEAGE DEDICATION PLAT

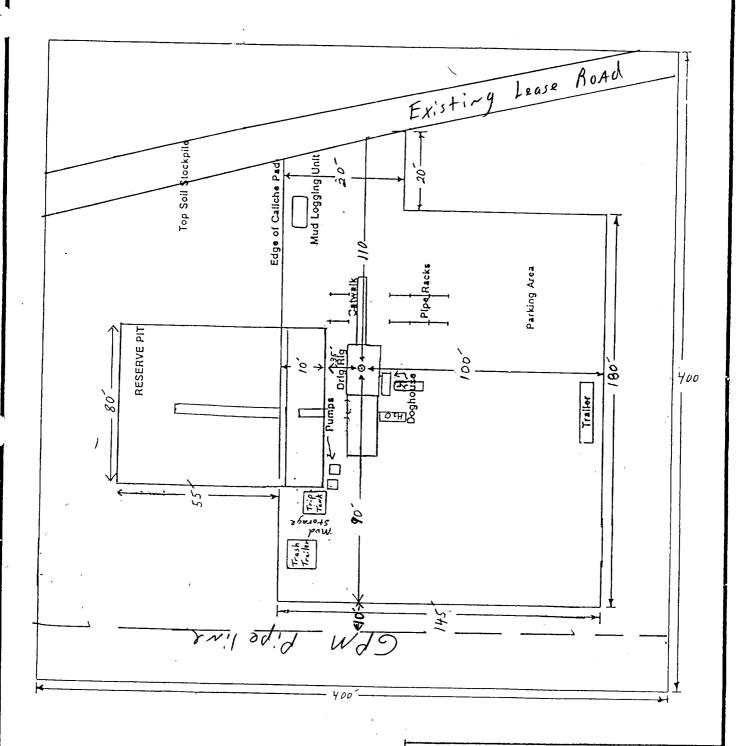
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	· }- · · · ·	**************************************		Larry a. Nermy
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	 		 	Doyle Hartman, Oil Operator
		REG. Page	676	Doyle Hartman, Oil Operator
		REG. DAS	676 LENCHALE OR LONG OR AV. WEST	Doyle Hartman, Oil Operator January 22, 1980 I hereby certile that the west include shown on this plat was platter from teld notes of actual surveys rade to me as under my supervision and that the same is time and carrett to the best of my
		REG. PAS	 + 天 	Doyle Hartman, Oil Operator January 22, 1980 I hereby certile that the west incursor shows on this plot was platted from I eld notes of actual surveys node to me as under my supervision and that the same is time and carrest to the best of my knowledge and belief November 28, 1979 Englishmed in transit of the species









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SDX RESOURCES, INC.

JAI Fed Com#2

EXHIBIT #5

SURFACE USE AND OPERATIONS PLAN SDX RESOURCES, INC.

Jalmat Federal Com. #2

1650' FSL, 760' FWL Unit L, Sec. 31, T24S, R37E Lea Co., NM

1. Existing Roads:

- A. The well site and elevation plat for the proposed well is shown in Exhibit #2. It was staked by Dan Reddy, Carlsbad, New Mexico.
- B. All roads to the location are shown in Exhibit #3. The existing rods are labeled and are adequate for travel during drilling production operations. Upgrading of the road prior to drilling will be done where necessary as determined during the onsite inspection.
- C. Directions to location: From Jal (intersection of Hwy 8 & 128) go appx. 2.75 miles north on Hwy. 18 to the intersection of 3rd. Str. Turn left on 3rd. and go .1 mile. Turn right thru cattle guard (Conoco Wells B sign). Stay on main caliche road 1 mile. Turn right .2 mile to GPII 301 well. Turn right and go .1 mile. Turn left and follow road .1 mile to location.
- D. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease.

2. Proposed Access Road:

Exhibit #3 shows the existing road.

No new road is necessary.

3. Location of Existing Wells:

Exhibit #4 shows all existing wells within a one-mile radius of this well.

- 4. Location of Existing and/or Proposed Facilities and ROW's:
 - A. If the well is productive:
 - 1. The well will be tested and any necessary production facilities (3x10 sep. and A 210 bbl. stock tank will be located on the existing well pad.
 - 2. A gas sales line will be laid to location by the purchaser.
 - B. If the well is productive, rehabilitation plans are as follows:
 - 1. The reserve pit will be back-filled after the contents of the pit are dry (within 120 days after the well is complete).
 - 2. Topsoil removed from the drill site will be used to raconteur the pit area to the original natural level, as nearly as possible, and reseeded as per BLM specifications.



5. <u>Location and Type of Water Supply:</u>

The well will be drilled with a combination brine and fresh water mud systems as outlined in the drilling program. The brine and fresh water will be obtained from commercial water stations in the area and hauled to roads shown in Exhibit #3. No water well will be drilled on the location.

6. Source of Construction Materials:

All caliche required for construction of the drill pad and any new access road will be obtained from the drilling pits and/or on site when possible. Any additional caliche will be obtained from approved caliche pits. All roads and pads will be constructed of 6" rolled and compacted caliche.

7. <u>Methods of Handling Water Disposal:</u>

- A. Drill cuttings not retained for evaluation purposes will be disposed into the reserve pit.
- B. Drilling fluids will be contained in plastic lined pits. The reserve pit will contain any excess drilling fluid or flow from the well during drilling, cementing and completion operations. The reserve pit will be an earthen pit, approximately 80' x 55' x 6' deep and fenced. The reserve pit will be plastic-lined (5-7 mil thickness) to minimize loss of drilling fluids and saturation of the ground with brine water.
- C. Water produced from the well during completion may be disposed into the reserve pit. After the well is permanently placed on production, produced water will be trucked to an approved disposal site.
- D. Garbage and trash produced during drilling or completion operations will be collected in a trash trailer by a contractor. All water and fluids will be disposed of into the reserve pit. Salts and other chemicals produced during drilling or testing will be disposed into the reserve pit. No toxic waste or hazardous chemicals will be produced by this operations.
- E. After the rig is moved out and the well is either completed or abandoned, all waste materials will be cleaned-up within 90 days. No adverse materials will be left on the location. The reserve pit will be completely fenced and kept closed until it has dried. When the reserve pit is dry enough to breakout and fill and as weather permits the unused portion of the well site will be leveled and reseeded as per BLM specifications. Only that part of the pad required for production facilities will be kept in use.

8. Ancillary Facilities:

None

9. Well Site Layout:

A. The drill pad layout is shown in Exhibit #5. Dimensions of the pad and pits and location of major rig components are shown. Top soil, if available, will be stockpiled per BLM specifications as determined at the on-site inspection. Because the pad is almost level no major cuts will be required.



- B. Exhibit #5 shows the planned orientation for the rig and associated drilling equipment, reserve pit, trash pit, pipe racks, turn-around, parking areas and access road. No permanent living facilities are planned but a temporary foreman/toolpusher's trailer will be on location during the drilling operations.
- C. The reserve pit will be lined with high-quality plastic sheeting (5-7 mil thickness).

10. Plan for Restoration of the Surface:

A. Upon completion of the proposed operation, if the well is to be abandoned, the pit area, after allowing to dry, will be broken out and leveled. The original top soil will be returned to the entire location which will be leveled and contoured to as nearly the original topography as possible.

All trash and garbage will be hauled away in order to leave the location in an anesthetically pleasing condition. All pits will be filled and the location leveled within 120 days after abandonment.

- B. The disturbed area will be revegetated by reseeding during the proper growing season with a seed mixture of native grasses as recommended by the BLM.
- C. The reserve pit will be fenced prior to and during drilling operations. The fencing will remain in place until the pit area is cleaned-up and leveled. No oil will be left on the surface of the fluid in the pit.
- D. Upon completion of the proposed operations, if the well is completed, the reserve pit area will be treated as outlined above within the same prescribed time. The caliche from any area of the original drill site not needed for production operations or facilities will be removed and used for construction of thicker pads. Any additional caliche required for facilities will be obtained from an approved caliche pit. Topsoil removed from the drill site will be used to raconteur the pit area and any unused portions of the drill pad to the original natural level and reseeded as per BLM specifications.

11. Surface Ownership:

Woolworth Trust P.O. Box 178 Jal, New Mexico 88252

A Surface Use Agreement has been negotiated.

12. Other Information:

- A. The area around the well site is grassland. The vegetation is native scrub grasses with abundant catclaw and mesquite.
- B. There is no permanent or live water in the immediate area.



C. An archaeological survey has been requested and will be forwarded to the BLM when completed.

13. <u>Lessee's and Operator's Representative:</u>

The SDX Resources Inc. representative for assuring compliance with the surface use plan is as follows:

Chuck Morgan SDX Resources Inc. PO Box 5061 Midland, TX 79704 915/685-1761 Office 915/685-0533 Fax

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by SDX Resources Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions which it is approved.

SDX Resources Inc.

Jøhn Pool Vice-President

DRILLING PROGRAM SDX Resources Inc. Jalmat Federal Com. #2 1650' FSL, 760' FWL Unit L, Sec. 31, T24S, R37E Lea Co., NM

1. Geologic Name of Surface Formation:

Permian

2. Estimated Tops of Important Geologic Markers:

Top of Salt 1200' Base of Salt 2700' Tansill 2700' Yates 2900'

3. Estimated Depth of Anticipated Fresh Water, Oil or Gas:

Water Sand 200' – 250' Fresh Water Tansill 2700' Oil & Gas Yates 2900' Oil & Gas

Fresh water sands will be protected by running 8-5/8" casing to a minimum depth of 600' and circulating cement. All other zones will be isolated by running 4-1/2" or 5-1/2" production casing and circulating cement.

4. <u>Casing Program:</u>

Hole Size	<u>Interval</u>	OC Csg	Weight Grade Jt Cond Type
12-1/4"	0 – 600	8-5/8"	24#, J55, New
7-7/8"	0 – TD	4-1/2" - 5-1/2"	9.5# - 17#, J55, Used

Cement Program:

8-5/8" Surface Casing:

Cemented to surface with 250 sx of Class C with 2% CaCl and ¼#/sx Flocele and 100 sx of Class C with CaCl.

5-1/2" Production Casing:

Cemented with 200 sx of Class C and 400 sx of Lite C with 3# salt/sx and ¼#/sx Flocele. This

should circulate cement to the surface.

5. <u>Minimum Specifications for Pressure Control:</u>

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram type preventer (2000 psi WP). Unit will be hydraulically operated. BOP will be nippled up on the 8-5/8" surface csg and used continuously until TD is reached. BOP and accessory equipment will be tested to 1000 psi before drilling out of surface casing. A 2" kill line and a 2" choke line will be included in the drilling spool. Other accessories to the BOP equipment will include a kelly cock.



6. Types and Characteristics of the Proposed Mud System:

The well will be drilled to TD with a combination of fresh water and brine water mud system. The applicable depth and properties of this system are as follows:

<u>Depth</u>	<u>Type</u>	Weight _(ppg)	Viscosity (sec)	Waterloss (cc)
0 - 600	Fresh Water (spud)	8.5	40 - 45	N/C
600 – TD	Brine water, SWG, Starch	10.0	30	24

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. Auxiliary Well Control and Monitoring Equipment:

- A. A kelly cock will be kept in the drill string at all times.
- B. A mud logging unit complete with H2S detector will be continuously monitoring drilling penetration rate and hydrocarbon shows from 1000' to TD.

Logging, Testing and Coring Program:

- A. Drillstem tests will be run on the basis of drilling shows.
- B. The electric logging program will consist of GR-Dual Laterolog and GR-Compensated Neutron-Density from TD to surface casing.
- C. Conventional coring may be performed in select intervals in the Yates formation.
- D. Further testing procedures will be determined after the production casing has been cemented at TD based on drill shows and log evaluation.

Abnormal Conditions, Pressures, Temperatures, & Potential Hazards:

No abnormal pressure or temperatures are anticipated. The estimated bottom hole temperature (BHT) at TD is 94° and estimated maximum bottom-hole pressure (BHP) is 1200 psig. No abnormal concentrations of hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. All H2S operation precautions will be followed (see attached H2S drilling operations plans). No major loss circulation zones have been reported in offsetting wells.

10. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is October 15, 1999. Once commenced, the drilling operation should be finished in approximately 10 days. If the well is productive, an additional 30 days will be required for completion and testing before a decision is made to install permanent facilities.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

SDX Resources Inc.

Jalmat Federal Com #2

1650' FSL, 760' FWL Sec. 31, T24S, R37E, Unit E Lea Co., NM

I. <u>Hydrogen Sulfide Training</u>

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards and characteristics of hydrogen sulfide (H2S).
- 2. The proper use and maintenance of personal protective equipment and life support system.
- 3. The proper use of H2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- The effects of H2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H2S Drilling Operations Plan and the Public Protection Plan.

There will be an initial safety session just prior to commencing operations on the well. The initial session shall include a review of the site's specific H2S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

II. <u>H2S SAFETY EQUIPEMNT AND SYSTEMS</u>

Note: All H2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500'.

- 1. Well Control Equipment:
 - A. Annular Preventer to accommodate all pipe sizes with properly sized closing unit.
- 2. Protective Equipment for Essential Personnel:
 - A. Mark II Surviveair 30-minute units located in the dog house.



Jalmat Federal Com. #2 – H2S Drlg Op Plan Page 2

3. H2S Detection and Monitoring Equipment:

- A. 1 portable H2S monitor positioned on location for best coverage and response.
- B. Mud logging trailer shall have H2S monitoring equipment.

Visual Warning Systems:

- A. Guy lines will be flagged and a wind sock will be positioned on location.
- B. Caution/Danger signs shall be posted on roads providing direct access to location.

5. Mud Program:

The mud program has been designed to minimize the volume of H2S circulated to the surface. Proper mud weight, safe drilling practices, will minimize hazards when penetrating H2S bearing zones.

6. Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service as necessary.

7. Communication:

Radio communications in company vehicles including cellular telephone and 2-way radio.

8. Well Testing:

No DST's are planned.



STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

SDX Resources Inc. PO Box 5061 Midland, TX 79704

September 23, 1999

The undersigned accepts all applicable terms, conditions, stipulations and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Lease No.:

NM-12610

Lease Name:

Jal Federal Com #2

Legal Description of Land:

Unit L, 1650' FSL 760' FWL

Sec. 31, T24S, R37E

Lea Co., NM

Formation (s):

Jalmat Gas

Bond Coverage:

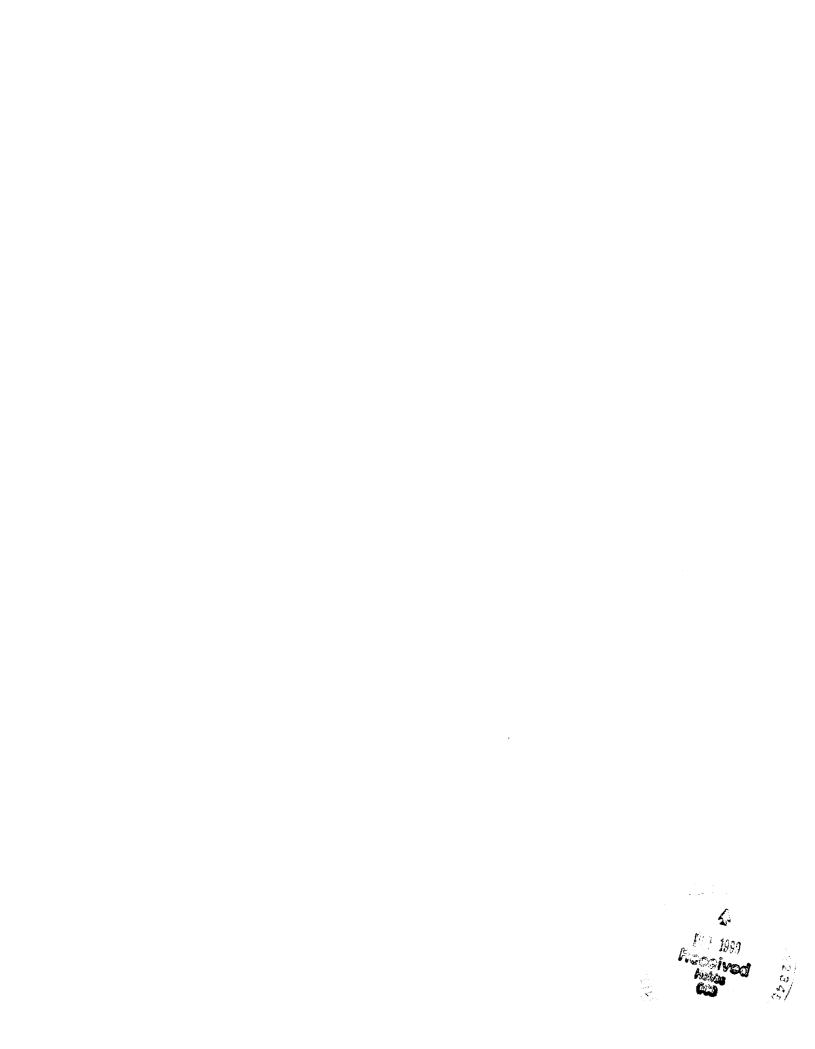
Statewide Bond - State of New Mexico

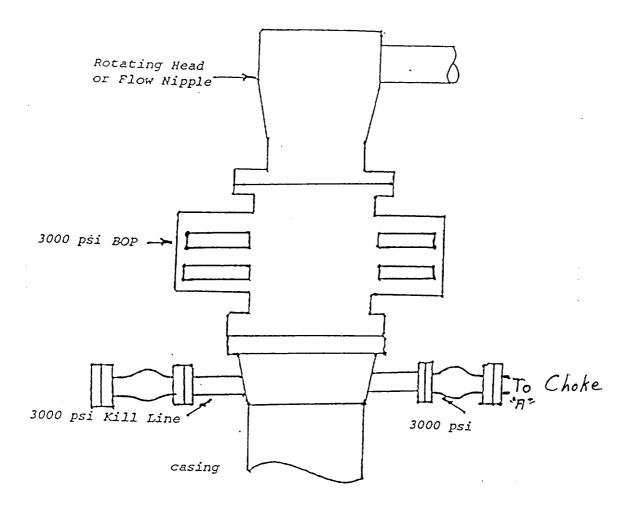
BLM Bond File No.:

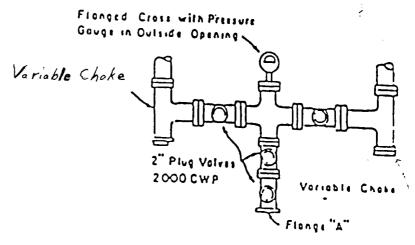
NM2307

Authorized Signature:

John Pool Vice-President







PLAN VIEW-CHOKE MANIFOLD