LE-SUBMITTAL Form 3160-3 FORM APPROVED **UNITED STATES** (July 1992) OMB NO. 1004-0136 Expires: February 28, 1995 DEPARTMENT OF THE INTERIOR W. Grand Avenue 5. LEASE DESIGNATION AND SERIAL NO. BUREAU OF LAND MANAGEMENT Artesia, NM 88210 NMLC-046250(b) 6. IF INDIAN, ALLOTTEE OR TRIBE NAME APPLICATION FOR PERMIT TO DRILL OR DEEPEN 1a. TYPE OF WORK DRILL X DEEPEN 7. UNIT AGREEMENT NAME b. TYPE OF WELL MULTIPLE GAS SINGLE WELL 🛛 MET 8. FARM OR LEASE NAME, WELL NO. OTHER 2. NAME OF OPERATOR Williams B Federal #1 9. API WELL NO. 30 -015 -3 SDX Resources, Inc. 3. ADDRESS AND TELEPHONE NO. 10. FIELD AND POOL, OR WILDCAT PO Box 5061, Midland, TX 79704 432/685-1761 RECEIVED Red Lake, 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 1650' FNL 990' FWL, Unit E DEC - 4 2003 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA At proposed prod. zone OCD-ARTESIA Sec 29, T17S, R28E Same 12. COUNTY OR PARISH 13 STATE 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE 10 miles East of Artesia, NM Eddy NM 17. NO. OF ACRES ASSIGNED TO THIS WELL 15 DISTANCE FROM PROPOSED 330 16. NO. OF ACRES IN LEASE LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT (Also to nearest drig. unit line, if any) (330)120 40 19. PROPOSED DEPTH 20. ROTARY OR CABLE TOOLS 18. DISTANCE FROM PROPOSED LOCATIONS TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 3500 Rotary 1320 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 22. APPROX. DATE WORK WILL START 3607' GR 11/01/03 ROSWELL CONTROLLED WATER BASIN 23. PROPOSED CASING AND CEMENTING PROGRAM SIZE OF HOLE GRADE, SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEMENT WITNESS 12-1/4" WITNESS 8-5/8" J-55 24# 450 325 sx 9.5# - 17# 3500 700 sx 4-1/2-5-1/2" J-55 Plan to drill a 12-1/4" hole to 450'. Set 24# 8-5/8" csg & cmt to surf. Drill 7-7/8" hole 3500'. Run LDT-CNL-GR & DLL-GR OH logs. Run 5-1/2" J-55 14# csg & cmt to surf. Will perf & stimulate the San Andres as necessary for optimum production. Surface Use & Operations Plan **Drilling Program** H2S Plan APPROVAL SUBJECT TO **GENERAL REQUIREMENTS EXHIBITS:** 1: BOP Diagram AND SPECIAL STIPULATIONS 2: Survey Plat (Original on File) **ATTACHED** 3: Access Maps 4: One Mile Radius Map

- 5: Rig Orientation Diagram
- Letter of Responsibility

IN ABOVE SPACE DESCRIBE PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or

l. O	, I substitute locations and measured a	ind true vertical deputs. Give blowddi preven	ter program, ir ar	iy.
SIGNED Donnie	twater TITLE	Regulatory Tech	DATE	10/29/03
This space for Federal or State office u	se)			
PERMIT NO.		APPROVAL DATE		
Application approval does not warrant or certific CONDITIONS OF APPROVAL, IF ANY:	that the applicant holds legal or equitable title	e to those rights in the subject lease which would ent	itle the applicant to	conduct operations thereon.
/s/ Leslie A	Theiss			·% DEC 2003
APPROVED BY	TITLE	FIELD MANAGER	DATE	S DEL CONT
	*See Instructions	s On Reverse Side		

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

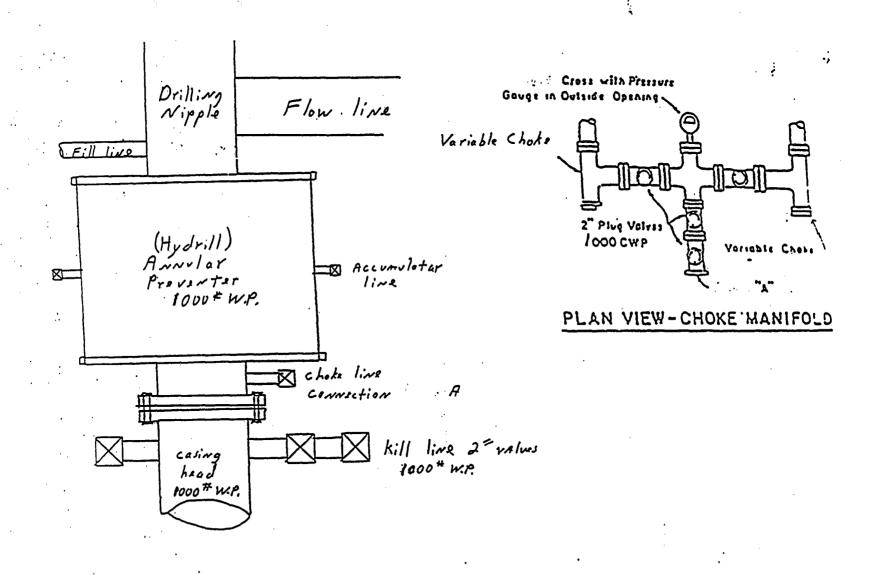
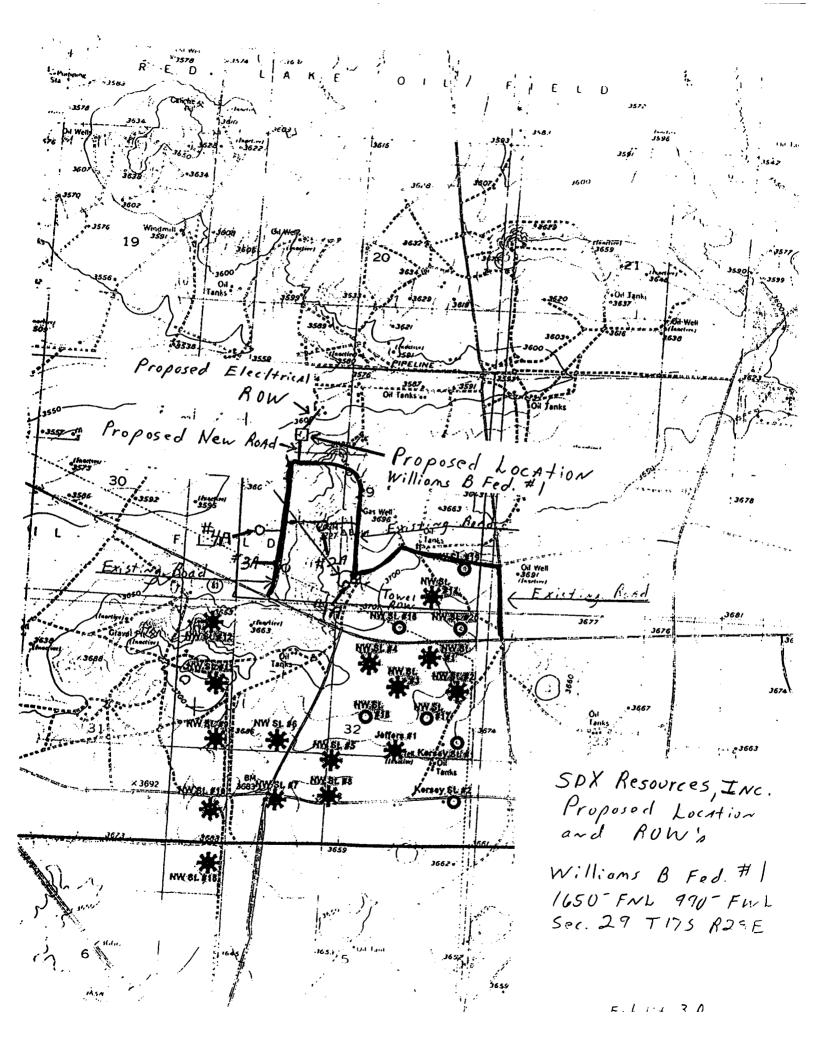


Exhibit #

District I 1625 N. French Dr., Hobbs, District II 611 South First, Arcesta, NM Pierrict III 1000 Ris Brases Rd., Astoc, District IV 2010 South Pacheco, Santa F	1 88218 NM 87410	ELL LC	OIL (CONSERV 2040 So Santa Fe	S & I	Mexico Natural Resource TON DIVISIO Pacheco M 87505	NFCE!	2000	Appropri State Fee	Form C-107 d March 17, 1999 ate District Office Lease - 4 Copies Lease - 3 Copies NDED REPORT
API Numb	er		Feel Co 51300	de f			' Poel Na		_ 	
Property Code			31300		merty I	Red Lake QN	HCPADE			Vell Number
OGRID No.	WIL	LIAMS	B FEDI	RAL Open	rater I	Keme				Elevation
020451	SDX	RESOU	RCES,	INC.				,		3607.
						Location			.av: a l	
E 29	Township 17-S	28-E	Lot 16	Feet free	-	North/South Hos NORTH	Post from the 990		West Hac ST	County EDDY
L-R	1.17.91		ttom Ho		n If	Different From			<u> </u>	
UL er let ne. Section	Tennolife	Range	Let 56			North/South line	Foot from the	Cast	/West Mass	County
Dedicated Acres John	r fafts H Co	melidation	Code C	hrder No.	1				1	
40										
NO ALLOWABLE W						APPROVED BY	THE DIVISION OPER I hereby constly a complete to the life constly a plotted from field or under my super to the best of my SERTED Date of Survey. Selection of Servey. Selection of Servey.	ATOR ATOR ATOR ATOR Bother de information Bonn: Regula 11/10 EYOR A resident and defer. F. R. E. E. A R. R. R. E. A R. R. R. R. R. R. R. A R. R. R. R. R.	CERTI metion cantal metion cantal metion cantal metion cantal metion cantal metion show at carton show and surveys a short the sam and surveys	FICATION inch herein is true and herical inch herein is true and herical inch herein in the herein in the herein inch herein in the herein inch herein

Original on file

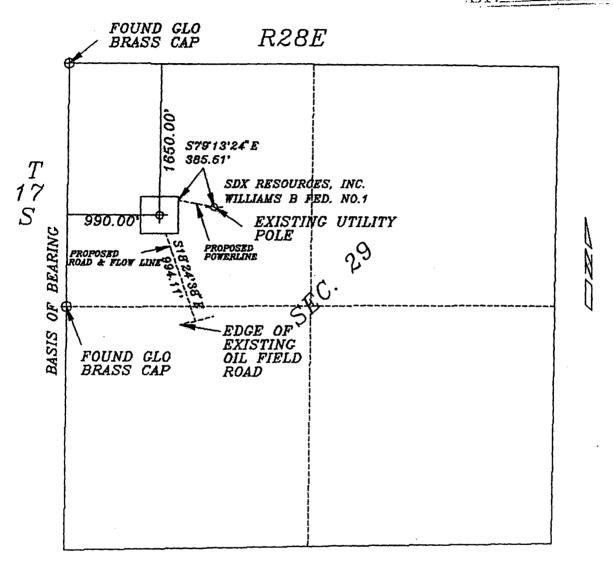


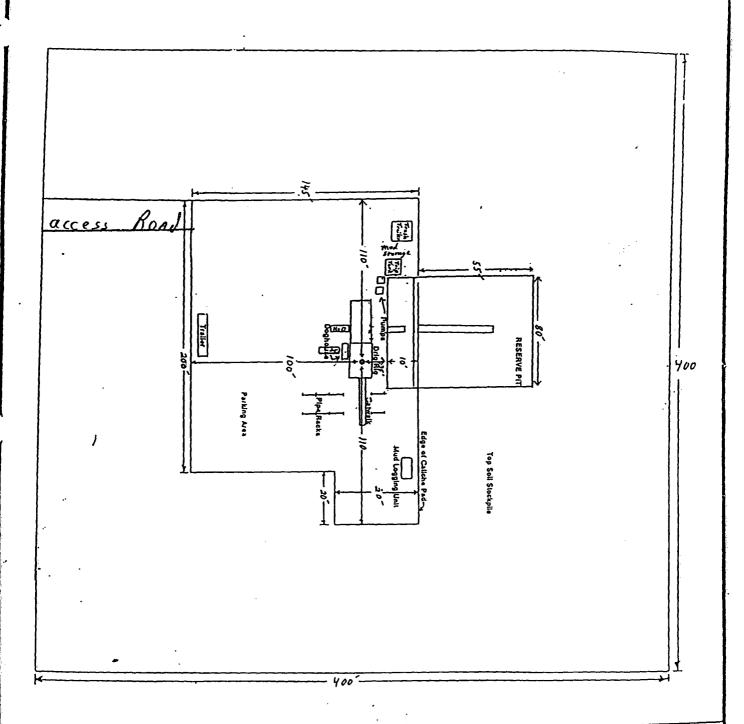
PROPOSED ROAD, FLOWLINE AND POWERLINE SKETCH PROFILED

PECEIVED

OCT 0 1 2000

BY:





 \sim

SDX RESOURCES, INC.

Drilling Rig Layout

Williams B Fed. #1

Fulil:1#

SURFACE USE AND OPERATIONS PLAN SDX RESOURCES, INC.

Williams B Federal # 1

1650' FNL, 990' FWL Unit E, Sec. 29, T17S, R28E Eddy 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 #3A. The existing rods are labeled and upgrading of the road prior to drilling will be done where necessary as determined during the onsite inspection.
- C. Directions to location: E. of Artesia on Hwy. 82 ~ 10 miles .Just before MP 119 turn left and go .4 M. Follow road to the right and go .1 M. Turn left 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 #3A shows the existing road.

~800' of new road will be needed. It is shown on Exhibit #3 A & B.

3. <u>Location of Existing Wells:</u>

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 if commercial production exist, a battery will be constructed on the existing well pad. Depending on production rates, it should consist of 2-500 bbl. Steel stock tanks, a 500 bbl. FG brine tank, and a 4X20 heater treater.
 - 2. A Power line will be built to location.. ROW is shown in exhibit 3A & B. It will be built by Central Valley Electric Company.
 - 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. Methods of Handling Water Disposal:

- 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, fenced, and plastic-lined (5-7 mil thickness).
- 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:

BLM

Grazing Leased to Bogle, LTD

Surface leasee has been notified.

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 432/685-1761 Office 432/685-0533 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.

Vice-President

DRILLING PROGRAM SDX Resources Inc. Williams B Federal # 1 1650' FNL, 990' FWL Unit E, Sec. 29, T17S, R28E Eddy Co., NM

1. Geologic Name of Surface Formation:

Permian

2. Estimated Tops of Important Geologic Markers:

Yates	600
7- Rivers	900'
Queen	1200'
Grayburg	1600'
San Andres	1950'

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

Water Sand	150' – 200'	Fresh Water
Yates	650	Oil & Gas
7-Rivers	950	Oil & Gas
Queen	1400'	Oil & Gas
Grayburg	1880'	Oil & Gas
San Andres	2800'	Oil & Gas

Fresh water sands will be protected by running 8-5/8" casing to a minimum depth of 450' and circulating cement. All other zones will be isolated by running 4-1/2" or 5-1/2" production casing and circulating cement.

4. Casing Program:

Hole Size	<u>Interval</u>	OC Csg	Weight Grade Jt Cond Type
12-1/4"	0 - 450	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 325 sx of Class C with 2% CaCl and ¼#/sx Flocele.
5-1/2" Production Casing:	Cemented with 300 sx of Class C and 400 sx of Lite C with 6# salt/sx and ½#/sx Flocele. This should circulate cement to the surface

5. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of an annular bag type preventer (1000 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.

٠.

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 – 450	Fresh Water (spud)	8.5	40 – 45	N/C
450 – 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.

8. 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 if deemed necessary.
- D. Further testing procedures will be determined after the production casing has been cemented at TD based on drill shows and log evaluation.

9. <u>Abnormal Conditions, Pressures, Temperatures, & Potential Hazards:</u>

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 800 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 Nov. 15, 2003. 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.

Williams B Federal # 1

1650' FNL, 990' FWL Sec. 29, T17S, R28E, Unit E Eddy Co., NM

I. Hydrogen Sulfide Training

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.
- 4. The proper techniques for first aid and rescue procedures.

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

- 1. 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.

- 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.
- 4. 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:

- 1,*...

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.