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b TYPE OF WELL	DRILL X 110	South	EPEN		7. UNIT AGREEMENT NAME	1708	
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			ve data on present productive zone and proposed revertical depths. Give blowout preventer program,		tive zone. If proposal is to drill or		
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SIGNED	Jone of fish	<u>u</u> ⊃™	PRODUCTION SECRETARY		DATE10/04/02		
(THIS SPACE FOR FEDE	RAL OR STATE OFFICE USE ONLY)						
PERMIT NO.			APPROVAL DATE				
APPLICATION APPROVAL DOES	NOT WARRANT OR CERTIFY THAT THE APPLICAN	T HOLDS LEGAL OR I	EQUITABLE TITLE TO THOSE RIGHTS IN THE SUBJECT LEASE	E WHICH WOU	LD ENTITLE THE APPLICANT TO CONDUC	T OPERATIONS THEREON	
CONDITIONS OF APPRO			FOR			•	
APPROVED BY	/s/ Mary J. Rugwe	ell тп	FIELD MANAGE	R	DATE NOV	υ 8 2002	

TITLE 18 U.S.C. SECTION 1001, MAKES IT A CRIME FOR ANY PERSONS KNOWINGLY AND WILLFULLY TO MAKE TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES ANY FALSE, FICTICIOUS OR FRAUDULENT STATEMENTS OR REPRESENTATIONS AS TO ANY MATTER WITHIN ITS JURISDICTION

orm 3180≺i (July 19⊋2)	I IAILT	L TATES							
UNITE STATES DEPARTMENT OF THE INTERIOR						5. LEASE DESIGNATION AND SERIAL NO.			
BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR DEEPEN						NM 67980			
APPLI	CATION FOR PE	RMIT TO DR	ILL OR DEEPER	<u> </u>	6. IF INDIAN, AL	LOTEE OR TRIBE NAME			
la TYPE OF WORK	DRILL X	DEEPEN]		7. UNIT AGREE	MENT NAME			
b. TYPE OF WELL	CAS		SINGLE	MULTIPLE	8. FARM OR LE	ASE NAME, WELL NO.			
OIL WELL X	GAS WELL OTHER	R	ZONE X	ZONE		SANTA FE FEDERAL	_ #10		
2 NAME OF OPERATOR			•		9. API WELL NO).			
RAY WESTALL					10. FIELD AND I	POOL, OR WILDCAT			
3. ADDRESS AND TELEPHONE P.O. BOX 4 LOCO HILLS		70				E. HERRADURA BEN	ID DELAWARE		
	RT LOCATION CLEARLY AND IN	ACCORDANCE WITH ANY	STATE REQUIREMENTS	OT TO	11. SEC., T., R.,				
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AT PROPOSED PROD. ZONI	E SAME	3.3	RECIAL STIPULA	ITIONS_	EDDY	NEW M	EXICO		
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15. DISTANCE FROM PROPOS	ED		18. NO. OF ACRES IN LEASE		TO THIS WELL				
PROPERTY OR LEASE LIN	ie et								
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18. DISTANCE FROM PROPOS			19. PROPOSED DEPTH		20. ROTARY OR CABLE	TOOLS			
TO NEAREST WELL DRILL		360	6400'			RT			
OR APPLIED FOR, ON THE 21. ELEVATIONS (Show wheth					APPROX. DATE	APPROX. DATE WORK WILL START			
3103 GR	iei bri ivij oni vicij					01-Jan-01			
23.		PROPOSED CASIN	IG AND CEMENTING PRO	OGRAM					
SIZE OF HOLE	GRADE, SIZE OF CASING	WT PER FT	SETTING DEPTH	100 0VC 0IF		QUANTITY OF CEMENT			
12 1/4	8 5/8" J-55 LT&C	24#	450' 6400'	400 SXS CIF	IRCULATED	WITNESS			
7 7/8	5 1/2" J-55 LT&C	15.5#	0400	1000 0000					
	NEW, OR USED MEETING AND ADDITIVES ARE SUB		DUE TO HOLE CONDITION	NS.	.) 2.1 (1.1				
A SERIES 900 BOP WIL	L REINSTALLED ON THE	8 5/8" CASING AND	TESTED PRIOR TO DRIL	LLING OUT		8 0			
	CARLSBA	d Controll	ED WATER BA						
					(A)				
		PR	OPOSED MUD PROGRAI	М		375			
						3 7 7			
									
0-450'	FRESH WATER & SPUE	MUD							
450-TD	BRINE WATER 9.6-10# T TO CHANGE DUE TO HOLE	CONDITIONS	·						
IN ABOVE SPACE DESCRIBE	PROPOSED PROGRAM: If propos	el is to deepen, give data	on present productive zone and	d proposed new pr	roductive zone. If prop	osalisto drii or			
deepen directionally, give per	finent data on subsurface to	ns and measured and true	vertical depths. Give blowout	preventer program	i, ii any.				
SIGNED	(M)	<u> </u>	TITLE GEOLOG	IST	DATE	10/10/2000			
(THIS SPACE FOR FEDERAL	OR STATE OFFICE USE)								
(10000V41 B175						
PERMIT NO.			APPROVAL DATE						
	RRANT OR CERTIFY THAT THE APPLICANT HOLI	OS LEGAL OR EQUITABLE TITLE TO 1	THOSE RIGHTS IN THE SUBJECT LEASE WH	ICH WOULD ENTITLE THE	APPLICANT TO CONDUCT OPER	ATIONS THEREON.			
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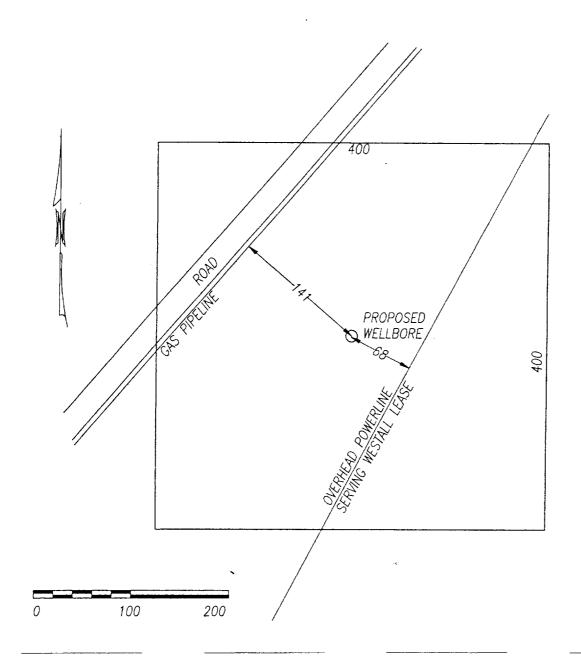
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District I PO Box 1980, Hobbs, NM 82241-1980 District II

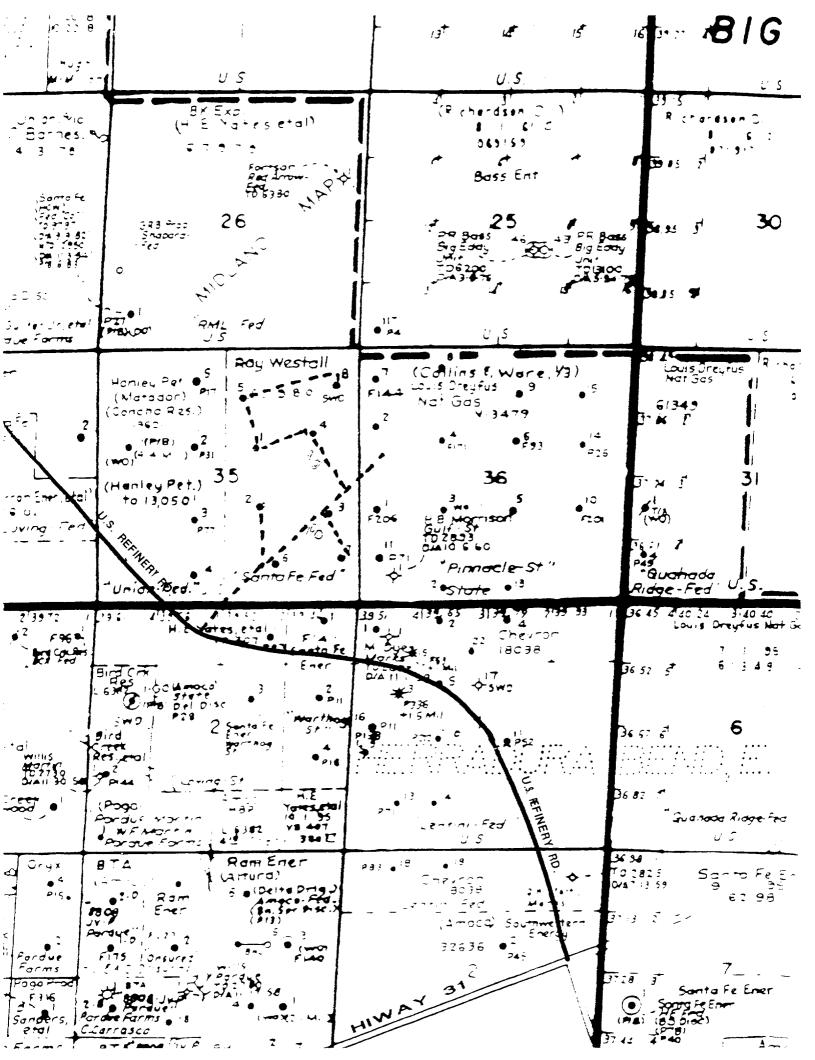
State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 10, 1994

PO Drawer DD, Artesia, NN District III 1000 Rio Brazos Rd., Aztec, District IV PO Box 2083, Santa Fe, NM	NM 87410		Santa Fe, I	NM 87504-2088 ZUU U (OCT 16+P 12	: 10	propriate District Office State Lease - 4 Copies Fee Lease - 3 Copies AMENDED REPORT			
	WEL			ACREAGE DED	HCATION	LARTA				
API Numb	er	4 Pool (⁴ Pool Code				³ Pool Name			
⁴ Property Code	Santa	Fe Fede	'Property Name Fe Federal				• Well Number			
OGRID No.	Ray W	Vestall O	'Operator Name 11 Operator				* Elevation 3103			
			10 Surf	ace Location						
UL or lot no. Section I 35	1 _ 1	Range Lot Idn 28e	Feet from 1650	I	Feet from the	East/West	ine County			
L			1	South on If Different F	850	East	Eddy			
UL or lot no. Section	Township I	Range Lot Ida	Feet from		Feet from the	East/West	County			
12 Dedicated Acres 12 Joint	or Infil ' Com	solidation Code	Order No.							
			3009	Q 850	Signature Frinted Name Printed Name Title Date 18 SURV I hereby certified frime or under in and correct to Date of Survey Date of Survey	EYOR C. Ty that the well orn field notes of my seal of Protest Part of R. Seal of Protest Part of R.	ERTIFICATION The second section is a second section of my innovidage and belief ERTIFICATION Incoming those on this plat of the second surveys made by and that the same is true belief. 200 PA 120 250 120 250 250 250 250 250			



SITE PLAN
RAY WESTALL OPERATING
SANTA FE FEDERAL WELL No. 10
1650 FSL 850 FEL
SEC. 35, T22S, R28E
EDDY Co., NM



APPLICATION FOR DRILLING

Ray Westall
Santa Fe Federal No. 10
1650' FSL & 850' FEL
Section 35
Township 22 South, Range 28 East
Eddy County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill, Ray Westall submits the following ten items of pertinent information in accordance with BLM requirements:

- 1. The geological surface formation is Quaternary.
- 2. The estimated tops of geologic markers are as follows:

Bell Canyon 2800' Cherry Canyon 3750' Brushy Canyon 4800' Bone Springs 6325

3. The estimated depths at which anticipated water, oil & gas formations are expected to be encountered:

Water 0-180' Oil & Gas Zones 2800-6325

- 4. Proposed casing program: See 3160-3
- 5. Pressure Control Equipment:

A 900s BOP will be installed on the 8 5/8" casing and tested prior to drill out.

6. Mud Program:

Fresh water in surface hole. Brine in production hole.

- 7. Auxiliary Equipment: None
- 8 Logging Program: CNL/FDC/GR, DLL.
- 9. No abnormal pressures or temperatures are anticipated. Estimated BHP is 3100#, Estimated BHT is 125 F.
- 10. Anticipated Starting date: 01/01/01

Duration: 12 Days drilling

5 Days completion

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

RAY WESTALL SANTA FE FEDERAL NO. 10

This plan is submitted with form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal cam be made of the environmental effect associated with the operation.

1. Existing Roads.

Exhibit A is a portion of a USGS topographic map showing the wells and roads in the vicinity of the proposed location.

2. Planned Access Road.

No new road will be required

3. Location of Existing Wells.

Exhibit B is a topo map showing the existing wells.

4. Location of existing/or proposed facilities:

If productive a 3" SDR 7 poly line will be laid along existing ROW to the battery located on the Santa Fe Federal #1 location. A 4 phase power line and poles will be routed along the existing ROW paralleling the road.

5. Location and Type of Water Supply.

It is planned to drill the proposed well with fresh and brine water system. The water will be obtained from commercial sources and will be hauled to the location by truck.

6. Source of Construction Materials.

The location and road will be from pit excavation and or will be hauled in from an approved caliche pit.

- 7. Methods of Handling Waste Disposal.
 - A. Drill cuttings will be disposed of in the reserve pit.
 - B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
 - C. Produced water during operations will be stored in reserve pits until dry.
 - D. Oil produced during operations will be stored in tanks until sold.
 - E. Current laws and regulations pertaining to the disposal of human waste will be complied with.

F. Trash, waste paper, garbage and junk will be stored in a wire cage preventing blowing or scattering by the wind. After drilling and completion all waste will be removed to an approved site.

8. Ancillary Facilities

None required.

9. Wellsite Layout.

Exhibit C shows the relative location and dimensions of the well pad, the reserve pit, a 400' X 400' area has been staked and flagged.

10. Plans For Restoration of The Surface.

- A. After finishing drilling and completion operations all equipment and other material not needed for further operations will be removed. The location will be cleaned of all trash and junk to leave the Wellsite in as aesthetically pleasing a condition as possible.
- B. Unguarded pits, if any containing fluids will be fenced until they have been filled.
- C. If the proposed well is non-productive, all rehabilitation and or vegetation requirements of the BLM and USGS will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11. Other Information:

- A. Topography: The land surface in the vicinity of the Wellsite is sandy loam with caliche hills and outcrops.
- B. Flora and Fauna: the vegetation cover consists of prairie grass, greasewood and miscellaneous desert growth. No wildlife was observed, but wildlife in the area probably includes those typical of semi-arid desert land. The area is used for cattle grazing.
- C. There are no ponds, lakes or rivers in the area.
- D. There are no inhabited dwellings in the vicinity of the proposed well.
- E. Surface ownership is federal.
- F Evidence of archeological sites has been reported and previously filed by Archaeological Survey Consultants.

12. Operator's Representative:

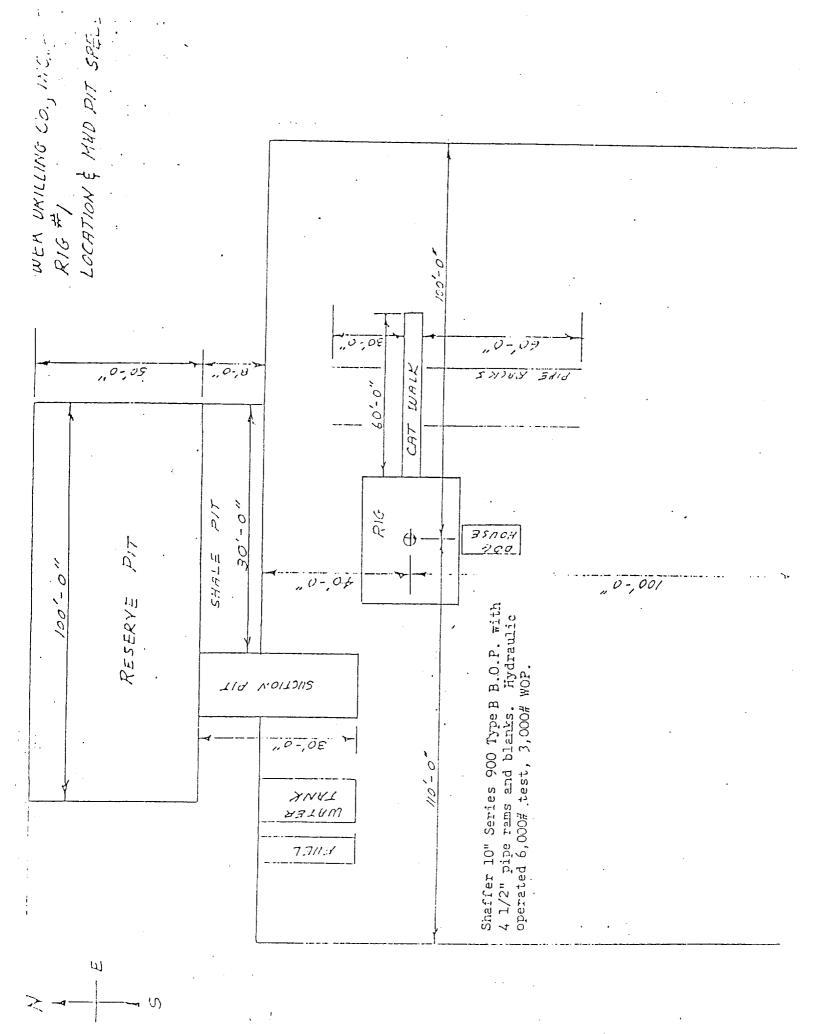
Ray Westall P.O. Box 4 Loco Hills, NM 88255 (505) 677-2370

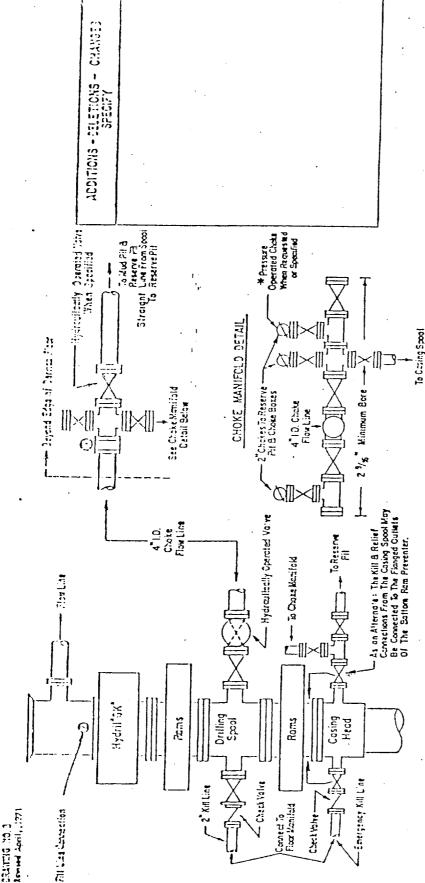
Certification: 13.

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 my knowledge true and correct; and that the work associated with the operation proposed herein will be performed by the operator and its' subcontractors in conformity with this plan and the terms and conditions under witch is approved

Randall L. Harris

Geologist





3000 PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

The blowout p.eventer assembly thalf consist of one biind ran preventer and one pipe ram preventer, both hydroulically operated, a Hydril 1532 pips. Casing and tubing rows to lit the preventers are so be available as needed. If correct in size, the flarged outless of the ram preventer may be used for connecting to the 4-inch 1, D, choice flow one and kill I'ne, except when of or gos diffling. The substructure height shall be sufpreventer; volves; chakes and connections as Mustrated. If a topered drill string is used, a ram preventer must be provided for each size of exill ficient to install a rotating blowout preventer. Minimum eperating equippent for the preventers and hydroulically operated valves thall be as follows: (1) Multiple pumps, driven by a continuous source of power, combie of fluid charging the total accumulator volume from the altragen precharge presure to its rated presure within

minutes. Also, the purps are to be connected to the hydraulic operating system which is to be a closed system. (2) Accumulates with seconds after alowers, the remaining accumulator presums shall be not less than 1000 PSI with perzent of the originat. (3) When gauested, on additional source of power, remote and equivalent, is to be evallable to operate the some a precharge of nitrogen of not less than 750 PSI and connected so as to receive the aforementioned fluid charge. With the charging pumps that down, the presuntial fluid volume stored in the pomps; or there shall be additional pumps operated by securate power and equal in performance appositities; occumulators must be sufficient to close all the pressure-operated devices simultaneously within __ the remaining accumulator fivid volume at least,

The classing monifold and remote about the month of the control for each pressure-operated device. Controls are to be loosled, with control hardles indicating open and classed positions.
A pressure reduces and regulator must be provided for operating the Hydril preventer. When requested, a second pressure reducer shall be available to limit operating fluid pressures to nan preventan.

Guil Legion No.29 hydrouise all, an equivalent or bester, is to be used as the fluid to operate the hydrouise equipment.

The choke monifold, choise flow line, and choke lines are to be supported by metal stands and adequately exchand. The choke flow lines shall be constructed as straight as passible and without should be sent set to be maintained to the choke monifold. All valves are to be selected for appending in the presence of oil, pas, and defiling I unds. The choke flow line valves connected to the defiling spool and all new type preventers must be equipped with stem extensions, or veral joints if needed, and wheels which are to extend beyond the ciga of the derrick substructure. All other valves are to be equipped with handles.

RAY WESTALL OPERATING

HYDROGEN SULFIDE DRILLING PLAN

1. HYDROGEN SULFIDE TRAINING

All personnel that are connected with the drilling or completion of a well within a known H2S area will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- A. The hazards and characteristics of hydrogen sulfide.
- B. The proper use of personal protective equipment and life support systems.
- C. The proper use of H2S detectors, alarms. warning systems, briefing areas, evacuation procedures, and prevailing winds.

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling 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.

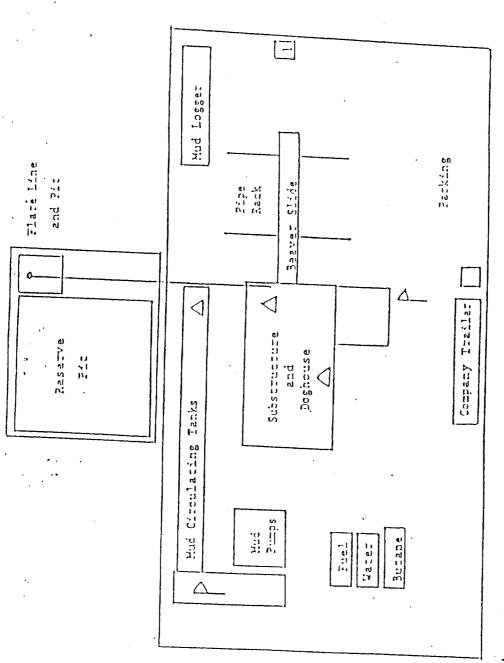
2. HI2S SAFETY EQUIPMENT AND SYSTEMS

All H2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H2S.

A. Well Control Equipment:

- a. Choke manifold with a minimum of one remote choke.
- b. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.

- B. Protective equipment for essential personnel:
 - a. Mark II Surviveair 30 minute units located in the dog house and at briefing areas, as indicated on well site diagram.
- C. H2S detection and monitoring equipment:
 - a. Two portable monitors positioned on location for best coverage and response. These units have warning lights and sirens when high levels of N2S is detected.
- D. Visual warning systems:
 - a. Wind direction indicators as shown on well site diagram.
 - b. Caution/Danger signs shall be posted on roads providing direct access to location.
- E. Mud program:
 - a. There is no known high pressure in this drilling area or known high concentrations of H2S that would necessitate any special drilling fluids.
- F. Metallurgy:
 - a. All drill stings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines and valves shall be suitable for H2S service.
- G. Communication:
 - a. Radio communications in company vehicles including cellular telephone and 2-way radio.
- II. Well testing:
 - a. There will be no DST's on this well.



A2S Mondrors with alarms at the bell nipple and shale shaker

- Wind Direction Indirectors

Safe 317 strag greas with caution signs and profective breathing equipment