CONDITIONS OF APPROVAL IF ANY:

			कें रेड		77	Mg i i			7
orm 3160-3 (July 1992)		FE ATES							. G/
	UNIT		,		i.	<u> </u>			
•	DEPARTMEN		S. LEASE DESIGNATION AND SERIAL NO. NM 67980						
		LAND MANAGEM							
APPLI	ICATION FOR PE	RMIT TO DR	ILL OR DE	EPEN		6, IF INDIAN, A	LLOTEE OR	TRIBE NAME	
a TYPE OF WORK	DRILL X	DEEPEN	]			7. UNIT AGREE	MENT NAME		
b. TYPE OF WELL	<b>-</b>	<del>_</del>	-					0	
OIL WELL X	GAS WELL OTHE	R	SINGLE ZONE X	MULTIPLE ZONE		8. FARM OR LE		WELL NO. E FEDERAL #9	1708
NAME OF OPERATOR						30	ois -	31629	
RAY WESTALL	1854	<u> </u>	<del></del>		<del></del>	10. FIELD AND	POOL, OR W		
ADDRESS AND TELEPHONI		70	130	<b>★</b>	**			ADURA BEND DE	AWARE
P.O. BOX 4 LOCO HILLS	S, NM 88255 505.677.23 ORT LOCATION CLEARLY AND IN		STATE REQUIREMEN	TS)		11. SEC., T., R.	, M., OR BLK		
	ORT LOCATION CLEARLY AND IN -2237' FNL &		15	. Pr		AND SURV	EY OR AREA		
AT SURFACE	231 HE G	-10	OCD CEIVE			SEC. 35 T-22-S R-28-E			
		•		ARTED		12 COUNTY OF	PARISH	13. STATE	
AT PROPOSED PROD. ZON		Init H		"ESIA	1:	EDDY		NEW MEXICO	
A DISTANCE IN MILES AND	DIRECTION FROM NEAREST TOV	N OR POST OFFICE	• .:						
14. DISTANCE IN MILES AND	12 MILES SE OF CARLS	BAD NM							
15. DISTANCE FROM PROPOS			16. NO. OF ACRES IN	LEASÉ	1	). OF ACRES AS	SIGNED		
LOCATION TO NEAREST				· ·	TC	THIS WELL			
PROPERTY OR LEASE LIN	NE, FT.						40		
(Also to nearest drig. unit		840'		360			40		
18. DISTANCE FROM PROPOS			19. PROPOSED DEPT	ГН	20. RC	TARY OR CABL	E TOOLS		
TO NEAREST WELL DRILL							DT		
OR APPLIED FOR, ON THE		450		3400'		1	RT		
21. ELEVATIONS (Show wheth	her DF, RT, GR, etc.)					APPROX. DAT	E WORK WIL ∙01-Jan		
3094 GR		PROPOSED CASI	G AND CEMENT	NG PROGRAM					
23.		FROM GOLD GROW							
SIZE OF HOLE	GRADE, SIZE OF CASING	WT PER FT	SETTING DE	РТН		QUAN	TITY OF CEN	NECC-	
12 1/4	8 5/8" J-55 LT&C	24#	450'	400 SXS	400 SXS CIRCULATED		7711	4E29	
7 7/8	5 1/2" J-55 LT&C	15.5#	6400'	1500 SXS	CIRCL	LATED			
ALL CASING WILL BE	NEW, OR USED MEETING	BLM SPECS.						~:	
								冒刀	
CEMENT QUANTITIES	AND ADDITIVES ARE SUB	LIECT TO CHANGE	DUE TO HOLE CO	NDITIONS.			1.00	<b>3 7</b>	
A SERIES 900 BOP WIL	L BE INSTALLED ON THE	8 5/8" CASING AND	TESTED PRIOR	TO DRILLING OUT				8 🖺	
.,,	A	N AGRITTAS I	en water	DARIN				- C	
	Calledia	DOSPESSU	cu washi	Shourt			19 Th	5 17	
							35		
		PF	ROPOSED MUD PR	ROGRAM			20	No. or other	
				<del>L SUBJECT</del>	<del>10</del>		<del>Mix</del>		
					CKITC	AND	<u>≥₹</u>	<u>⇔ </u>	
0-450'	FRESH WATER & SPUI	D MUD	GENERAL	REQUIREM		MILL	震主	- AS-WS	
450-TD	BRINE WATER 9.6-10#		SPECIAL	STIPULATIO	<del>4S</del> -		<b>J&gt;</b>	~	
MUD PROGRAM SUBJEC	T TO CHANGE DUE TO HOLE	CONDITIONS		r					
				-	w nmduc	tive zone. If or	posal is to d	rill or	
IN ABOVE SPACE DESCRIBE	PROPOSED PROGRAM: If propo	sal is to deepen, give data	on present productive	s zone and proposed ne	ram, if ar	1V.	,		
deepen directionally, give pe	rtinent data on subseque location	ins and measured and true	e vertical depths. Give	Signous biesesses biod	11 41	<del></del>			
24.			TITLE G	EOLOGIST		DAT	E 10/10/2	000	
SIGNED	~//DA		TITLE G						
			· · · · · · · · · · · · · · · · · · ·		<del></del>	<del></del>			
(THIS SPACE FOR FEDERAL	OR STATE OFFICE USE)								

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, FICTITIOUS OR FRAUDULENT STATEMENTS OR REPRESENTATIONS AS TO ANY MATTER WITHIN ITS JURISDICTION

TITLE

APPLICATION APPROVAL DOES NOT WARRANT OR CERTIFY THAT THE APPLICANT HOLDS LEGAL OR COURTABLE TITLE TO THOSE RIGHTS IN THE SUBJECT LEASE WHICH WOULD ENTITLE THE APPLICANT TO CONDUCT OPERATIONS THEREON.

ISLANIC DEMAK

District I PO Box 1980, Elobbs, NM \$2241-1980 District [] PO Drawer DD, Artesia, NM \$1211-0719 1000 Rio Brazos Rd., Aztec, NM 87410 District IV

# State of New Mexico Energy, Minerals & Natural Resources Department

# OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

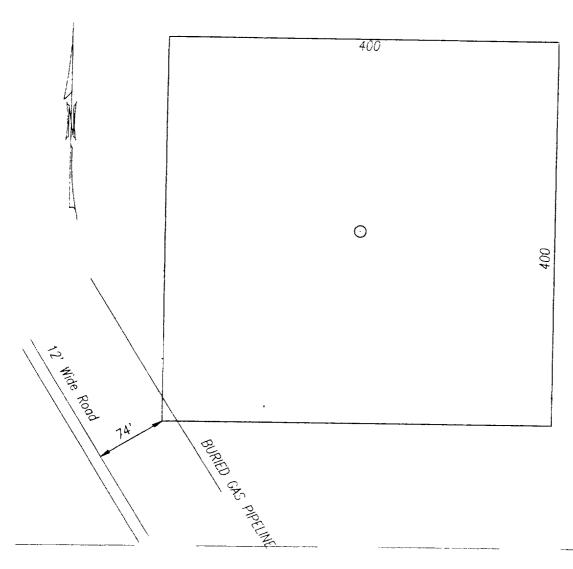
Form C-102 Revised February 10, 1994 Instructions on back

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

Certificate Number (38) 884

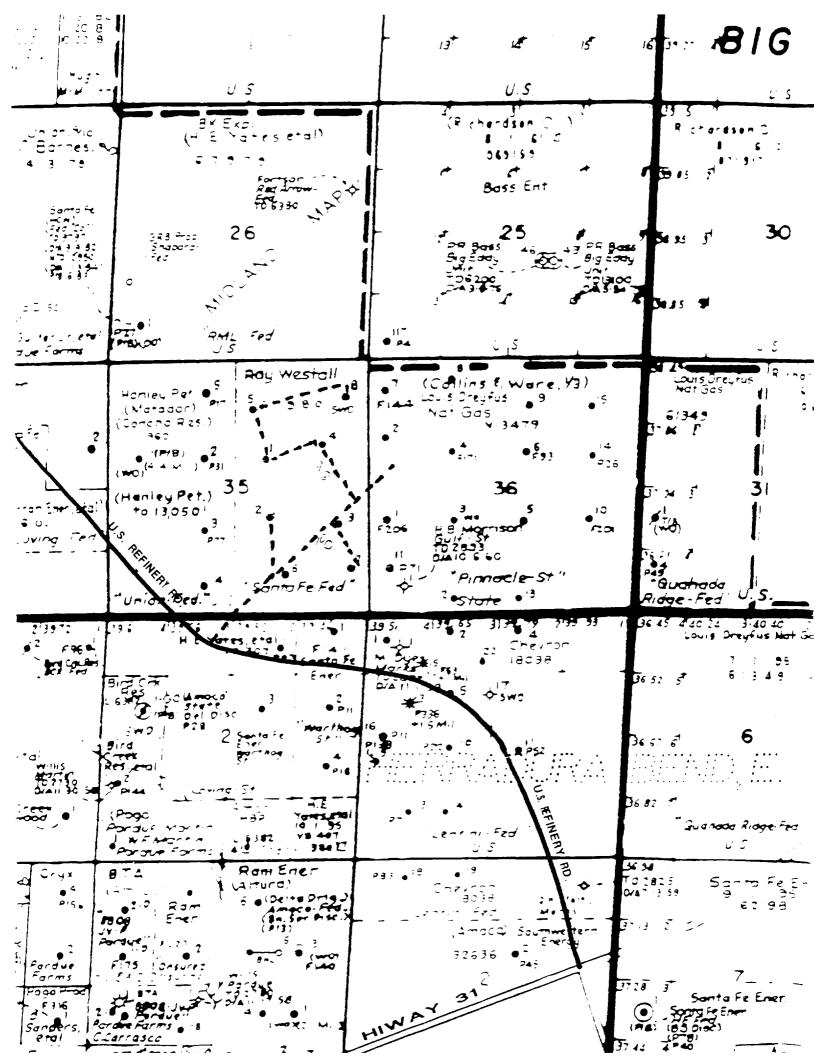
PO Box 2082, Sa	nta Fe, NM									] AM	ENDED REPOR		
<del></del>	API Numb		LL LC			ACF	REAGE DEDI						
	741 News		¹ Pool Code			Pool Name							
* Property	Cede	<del></del>	Property Name					* Well Number					
¹ocam.	'OGRID No.			Fe Fed					9				
ос <b>ж</b>	No.	R	ay We	stall	Opera	<del>permor</del> tor	Name		* Elevation 3101				
<del></del>					10 Sur	face	Location				·		
UL or lot no.	Section	Township	Range	Lot Ida	Feet from		North/South line	Feet from the	East/Wes	ant/West libe County			
H ————	35	22s	28e		2310	-	North	640	East		Eddy		
		<del></del>	11 Bot	tom Ho	le Locati	on I	f Different Fro	om Surface	-		12001		
UL or lot no.	Section	Township	Range	Lot ida	Feet from		North/South line	Feet from the	East/West line		County		
11 Dedicated Acr	ta loint	or infill   ' (	Comolidatio	n Code I it i	Order No.								
40				a case	Ditter No.								
NO ALLOV	VABLE 1	WILL BE	SSIGNE	D TO TH	IS COMPI	LETIC	ON UNTIL ALL	INTERESTS H	AVE RE	EN CO	NCOL IDATED		
		OR A	T2-NON	ANDARD	UNIT HA	AS BE	EN APPROVED	BY THE DIV	ISION	EN CO	MOCHINATED		
		OCD ARTESIA			· · · · · · · · · · · · · · · · · · ·		2310	Signatury	I hereby certify that the information contained hereby true and complete to the best of my knowledge and best of my knowl				
<u> </u>								97. STUDE 6-FOLOGIST DALE 11/8/50					
							7.2	I hereby certimas plotted from or under the and correct to Nover Date of Supre-	fy that the word field note my supervision the best of	ell location of actual n. and sha ny belief.	TFICATION  In shown on this plat  It surveys made by  It the same is true		
								P R .			Ann or		

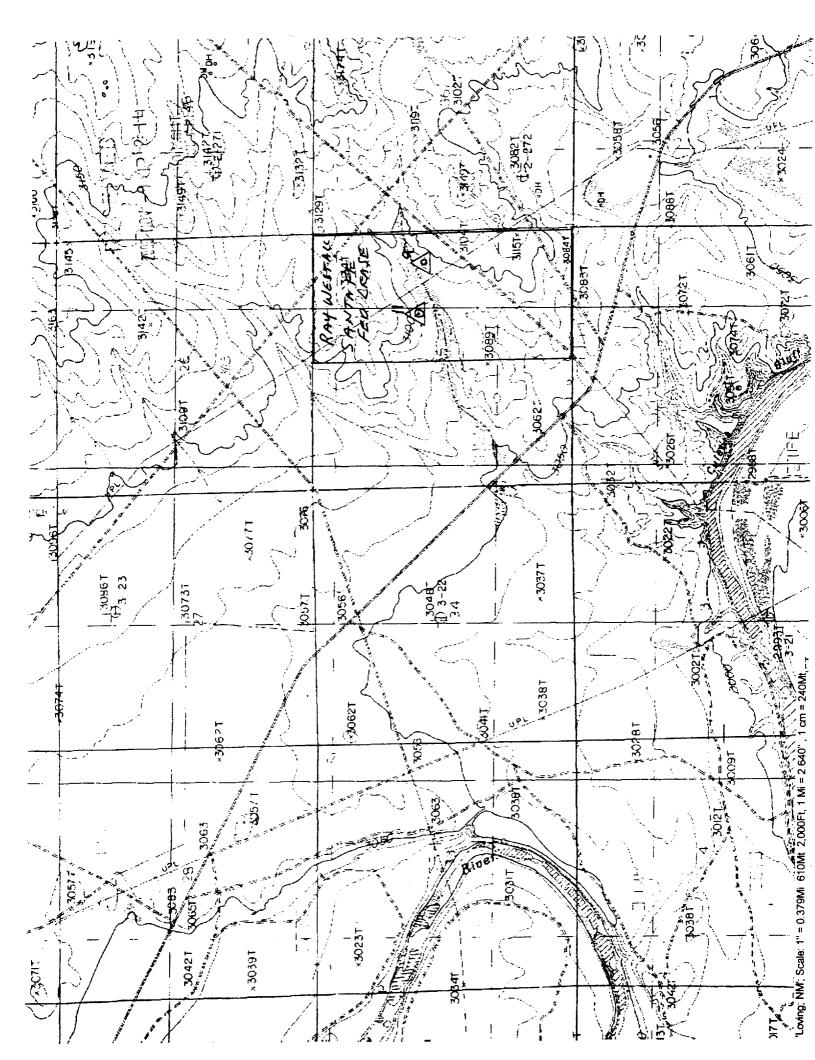




0 100 200

SITE PLAN
RAY WESTALL OPERATING
SANTA FE FEDERAL WELL No. 9
2310 FNL 640 FEL
SEC. 35, T22S, R28E
EDDY Co., NM





#### APPLICATION FOR DRILLING

Ray Westall
Santa Fe Federal No. 9
2237' FNL & 840' 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.
- 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. 9

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.

Approximately 300' of road will be constructed west from the main road.

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:

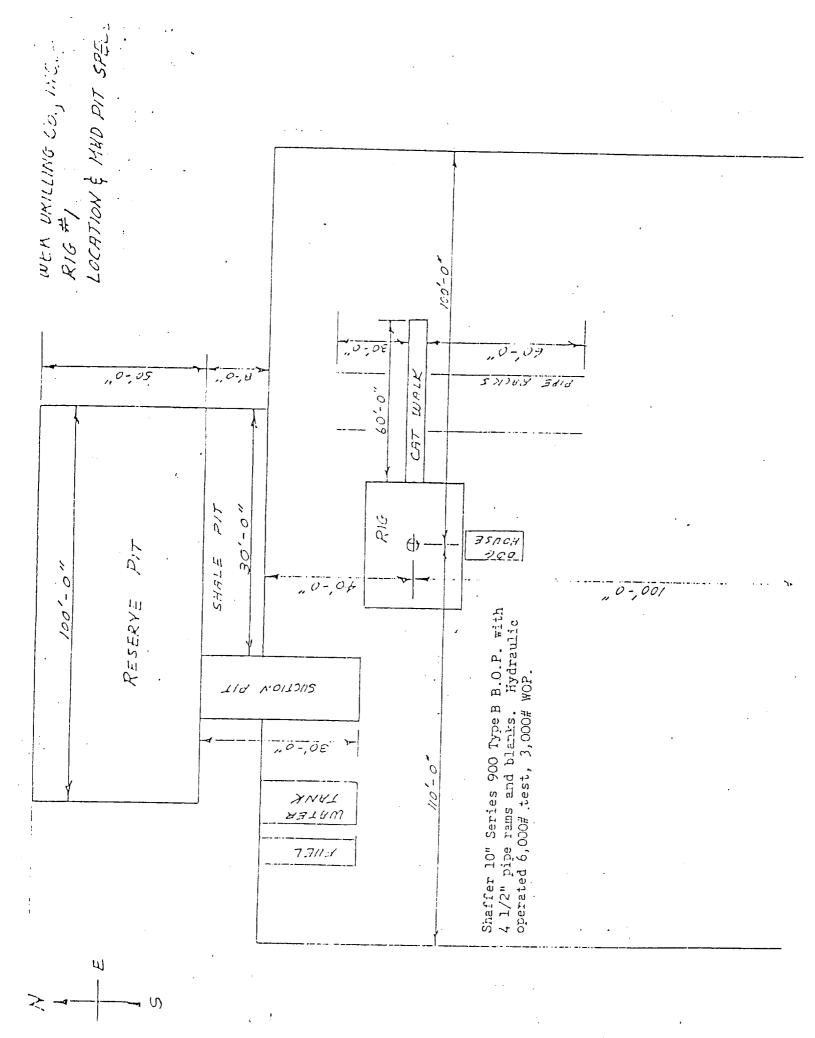
Ray Westall P.O. Box 4 Loco Hills, NM 88255 (505) 677-2370

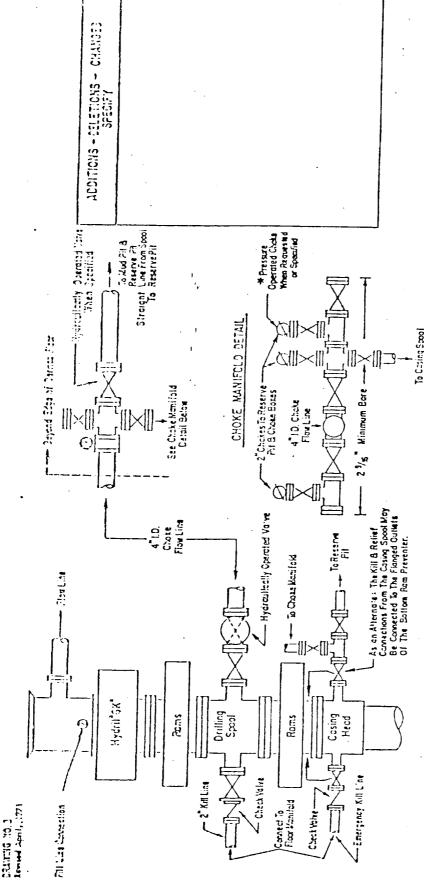
#### 13. Certification:

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 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

pipe. Casing and tubing rons to fit the preventers are so be available as needed. If correct in size, the flanged auties of the ram preventer may be used for connecting to the 4-inch (.D. chake flow one kill I'me, except when of or goal drilling. The autimature height shall be suf-The blomout preventer assembly thall consist of one blind ran preventer and one pipe ram preventer, both hydroulically operated, a Hybid 1004 preventer; volves; chokes and connections as Musinated. If a topered drill string is used, a non preventer must be provided for each size of exill

Minimum operating equipment for the preventers and hydraulically operated valves shall be as follows: (1) Multiple pumps, driven by a continuminutes. Also, the purps are to be connected to the hydraulic operating system which is to be a closed system. (2) Accumulator with ous source of power, coposie of fluid charging the total accumulator volume from the nitrogen precharge presure to its rated presure within

secondy citer plaures, the remaining accumulator pressure wall be not less than 1000 PSI with occumulators must be sufficient to close all the pressure-operated devices simultaneously within recovery clies plants, the remaining accumulator fixed potential be not less than 1000 PSI with the remaining accumulator fixed volume at least persons the original. (3) When goveried, on additional source of power, remain and equivalent, is to be original to operate the above. o precharge of nitragen of not less than 750 PSI and connected to as to receive the aforenential edition fluid charge. With the charging pumps that down, the presuntsed fluid valime stand in the pamps; or there shall be additional pumps operated by secural power and equal in performance sapas; Illies,

The closing monitald and remale about the manual for each pressure operated device. Controls one to be loosed, with control handles indicating open and closed positions. A pressure reduces and regulator must be provided for operating the Hydril preventer. When requested, a second pressure reducer shall be ovaliable to limit operating fluid pressures to an operation. Coult Legion No.38 hydrollic all, an equivalent or bester, is to be used as the fluid to operate the hydrollic equipment.

The choire manifold, chaire flow line, and choire flow are to be supported by metal stands and adequately enclosed. The choire flow line and choire flows the secent is to be maintained to the choire manifold. All valves are to be selected for apartition in the presence of all, pay, and defiling fiveds. The choire flow line valves connected to the drilling spool and all ran type preventers must be equipped with stem extensions, universal 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.

# To include dentick floor mainted controls.

#### 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.

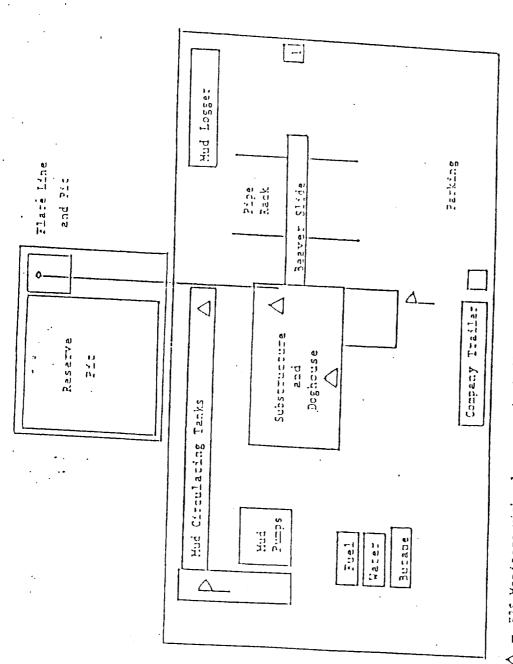
#### 2. H2S SAFETY EQUIPMENT AND SYSTEMS

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 H2S 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.



ElS Mondrons with alarms at the bell nipple and shale shaker Safe 310 fint grazs with caution signs and - Wind Direction Indicators

procedure breathing equipment