Form 3166 2 (July 1992)	_	OPER ()	IGRID NO. 158	(c)	44		
Nay Westall	UNIT	PROPER		111	All 11-5-96		
Kty Hozzi.	DEPARTMENT	OF PHOPER		4	6. LEASE DESIGNATION AND SERIAL NO.		
	BUREAU OF LA	ANE POOL CO	DE <u>1334</u>	<u> </u>	NM-63368		
APPLIC	CATION FOR PER	M EFF. DAT	TE 12/9/9	1/2	C. IF INDIAN, ALLOTEE OR TRIBE NAME		
1a. TYPE OF WORK			36-625-3	2011			
h TVPE OF WELL	DRILL x	DE VI. 18.2.	-300000	2116	7. UNIT AGREEMENT NAME		
b. TYPE OF WELL OIL	GAS		SINGLE	MULTIPLE	8. FARM OR LEASE NAME, WELL NO.		
WELL X	WELL OTHER	!	ZONE X ZONE		Bonanza Federal #8		
2. NAME OF OPERATOR					9. API WELL NO.		
Ray Westall  3. ADDRESS AND TELEPHONE							
P.O. Box 4, Loco Hills, N					10. FIELD AND POOL, OR WILDCAT  Crazy Horse Delaware		
4. LOCATION OF WELL (REPO	RT LOCATION CLEARLY AND IN	ACCORDANCE WITH	ANY STATE REQUIREMENTS)		11. SEC., T., R., M., OR BLK		
AT SURFACE	530' FSL & 990' FEL				AND SURVEY OR AREA		
AT PROPOSED PROD. ZONE	Same	, /	$I \cap O$		Sec 13, T19S-R32E  12 COUNTY OR PARISH 13, STATE		
	- Juliu	Un	it P		Lea New Mexico		
	DIRECTION FROM NEAREST TOW						
20 Miles so	utheast of Loco Hills. New Me	exico	T				
LOCATION TO NEAREST	ED		16. NO. OF ACRES IN LEASE	17.	7. NO. OF ACRES ASSIGNED TO THIS WELL		
PROPERTY OR LEASE LIN	E, FT. 530'		640	D	40		
(Also to nearest drig. unit li	ne, if any)						
18. DISTANCE FROM PROPOS			19. PROPOSED DEPTH	20.	ROTARY OR CABLE TOOLS		
TO NEAREST WELL DRILL! OR APPLIED FOR, ON THIS		1210	7800	,	Dotom		
21. ELEVATIONS (Show wheth			7800	·	Rotary APPROX. DATE WORK WILL START		
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23.		PROPOSED CAS	SING AND CEMENTING PR				
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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

District I PO 80x 1986, Hoobs, NM 28241-1980 District II

State of New Mexico
Energy, Minerals & Nathral Resources Department

OIL CONSERVATION DIVISION

PO Box 2088 Santa Fe. NM 87504-2088

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

PO Drawer DD, Artesia, NM 33211-3719

Submit to Appropriate District Office

1000 Rio Brazos Rd., Aztec, NM \$7410

State Lease - 4 Copies

AMENDED REPORT

District IV PO Box 2082, Santa Fe, NM 27504-2083 Fee Lease - 3 Copies

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#### APPLICATION FOR DRILLING

Ray Westall Bonanza Federal #8 530' FSL & 990' FEL Section 13 Township 19 South, Range 32 East Lea 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. Geological surface formation:

Quaternary.

2. Estimated tops of geologic markers are as follows:

Yates 3470 Delaware 5900 Bone Springs 7550

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

Water

Quaternary: 0-180'

Oil and Gas

Delaware: 5900-7550'

4. Casing program:
All casing will be new

Hole Size	Interval	Casing	~
17 1/2" 11" 7 7/8"	0-500' 500-2950' 2950-TD	8 5/8"	48# H-40 ST&C 32# J-55 ST&C 17# J-55 ST&C

## Cement Program:

	13	3/8"	Cemented to surface with 350 sxs "C" with 2% CaCl + 1/4 lb/sk Cellophane Flakes.
`	8	5/8"	Cemented to surface with 500 sxs "C" with 5 lb/sk NaCl + 1/4 lb/sk Cellophane Flakes + 2% CaCl.
	5	1/2"	Cemented to tie back to 8 5/8" casing 1st stage with 700 sxs "H" 2% CaCl, 2nd stage 500 sxs "C" lite 2% CaCl. With DV Tool @ 6500'.

# 5. Pressure Control Equipment:

The blowout preventor equipment (BOP) whown in Exhibit #1 will consist of a 3M system double ram type (3000 psi WP) preventor. The BOP will be installed on the 13 3/8" surface casing and utilized continuously until total depth is reached. Prior to drilling out the casing shoe, the BOP will be function tested.

## 6. Mud Program:

Depth	Туре	Weight	Viscosity
0-500'	Fresh Water	8.4	31-33
500-2950	Brine Water	10.0	30
2950-TD	Cut Brine	8.8	29-30

## 7. Auxiliary Equipment:

A kelly cock will be in the drill string at all times.

## 8. Logging Program:

No drillstem tests are planned.

DLL-Gr., Caliper TD to Intermediate casing,

CNL/FDC-Gr. and Caliper TD to Intermediate casing

CNL/GR TD to surface.

Abnormal Pressures, Temperatures and Potential Hazards: 9.

No abnormal pressures or temperatures are anticipated. Estimated BHP is 3500#, Estimated BHT is 116.F. An H2S Drilling Operations Plan is included. No major loss circulation intervals have been encountered in adjacent wells.

10. Anticipated starting date:

As soon as possible.

Duration:

12 days drilling 15 days completion

# MULTI-POINT SURFACE USE AND OPERATIONS PLAN

RAY WESTALL BONANZA FEDERAL NO. 8

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 can be made of the environmental effect associated with the operation.

- 1. Existing Roads.
  - Exhibit A is a portion of a county road map showing the roads in the vicinity of the proposed location.
- 2. Planned Access Road.

  Approximately 1210' of new road will be constructed east from the Bonanza Federal #7 Location.
  - Directions:

Proceed west from Loco Hills to state road 529. Go east approximately 7 miles, turn south on county road 126 for 09 miles, turn east on caliche road 4.5 miles, South 1 mile to the Bonanza Federal #7 location. The new road will start here and go east.

- Location of Existing Wells.
   Exhibit B is a topo map showing the existing wells.
- 4. Location of Existing/or proposed Facilities:

  If productive, storage tanks, seperators pump jack ect.

  will be install on location. A 4 phase power line and
  poles will be routed along the existing ROW
  parallelling 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 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 pits, 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.
  - 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:

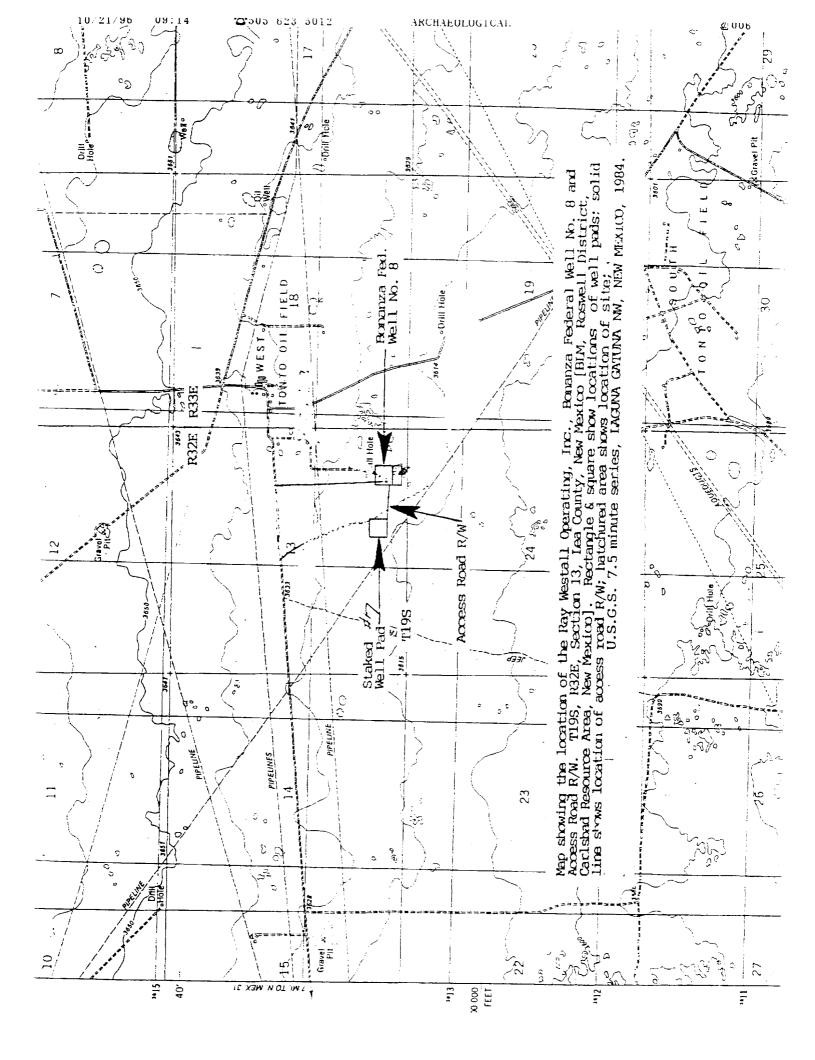
- A. Topography: The land surface in the vicinity of the wellsite is sandy loam soil.
- B. Flora and Fauna: The vegetation cover consists of prairie grass, greasewood and miscellaneous desert growth. No wildlife was observed, but wildlife in the area probably includes those typical of semi-arid desert 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:

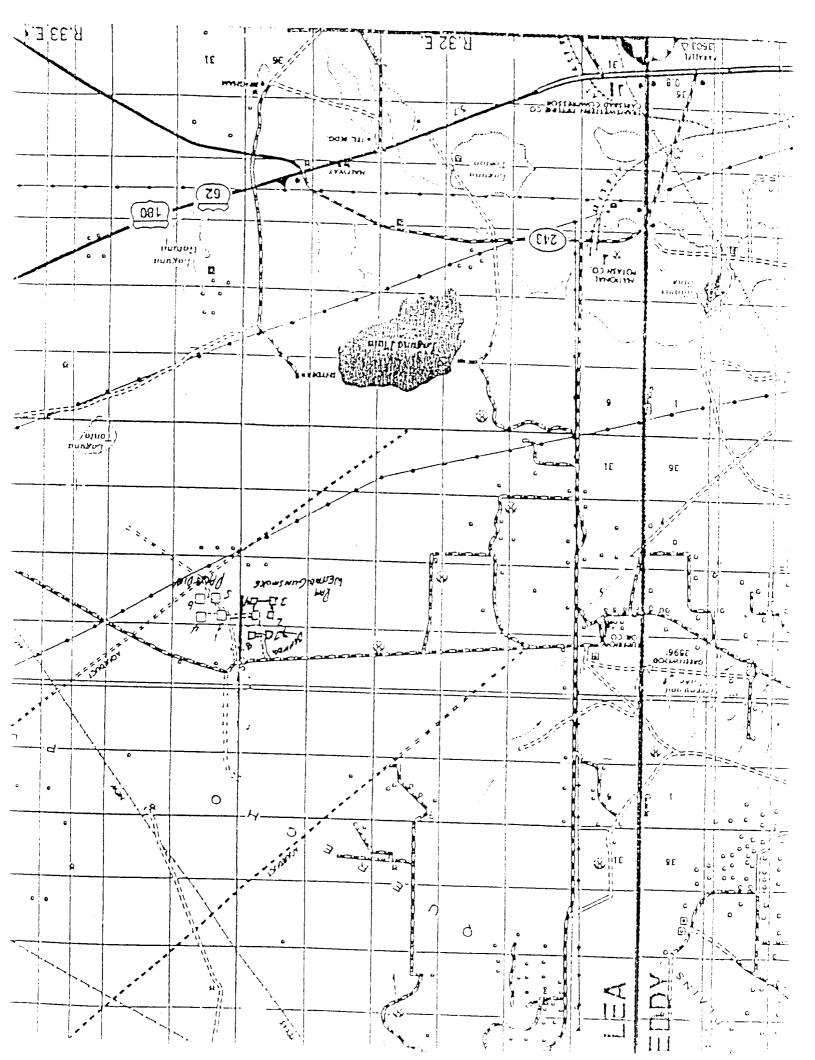
Ray Westall P.O. Box 4, Loco Hills, NM 88255 (505) 677-2370

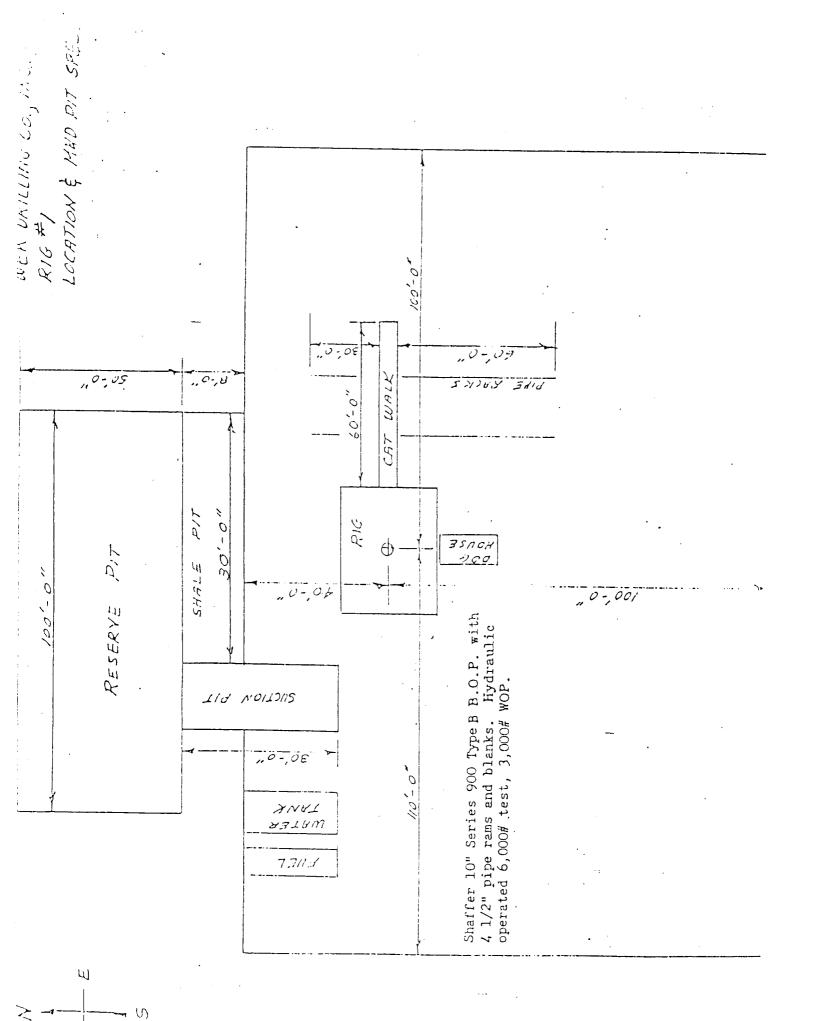
## 13. Certification:

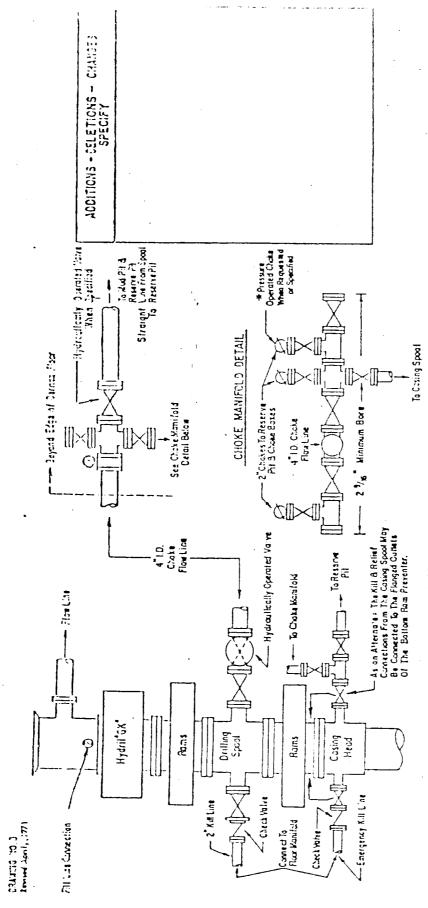
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct: and that the work associated with the operation proposed herein will be performed by the operator and it's subcontractors in conformity with this plan and the terms and conditions under which is approved.

Randall Harris









3000 PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

The blowout preventer assembly thall consist of one blind ram preventer and one pipe ram preventer, both hydroulically operated, a Kyaii] "GK" pipe. Caing and tobing rows to fit the preventers are a be available as needed. If correct in size, the flanged autlets of the ran preventer as be used for connecting to the 4-inch 1.0, choice flow the and kill time, except when our or goal diffilling. The adultional height shall be sufproventer; volves; chakes and connections as Matrated. If a topered drill string is used, a ran preventer must be provided for each size of an ficient to install a rotating blowout preventer, Minimum operating equipment for the preventers and hydraulically operated valves shall be as follows: (1) Multiple pumps, driven by a continuminutes. Also, the pumps are to be connected to the hydroulic operating system which is to be a closed system. (2) Accomplator with ous source of power, copable of fluid changing the total accumulator values from the altrogen precharge presure to its rated pressure within

Inscords other plowing, the sensioning accomplator pressure that he may less than 1000 751 with the tensioning occumulator fluid volume at least percent of the original. (3) When requested, on additional source of power, remain and equivalent, is to be available to operate the above pumps or there shall be additional pumps operated by separate power and equal in performance sapabilities. a precharge of nitrogen of not less than 750 PSI and connected to as to receive the aforemental chains and charge. With the charging pumps that down, the pressurant fluid volume standards and the pressurant fluid volume that the charge accomplator please shall be not then that than 1000 PSI. the remainling occumulator fluid valume at least

The closing monifold and remote closing monifold shall have a separate for each pressure-operated device. Control see to be located to that and tending open and closed positions. A pressure reduces and regulator must be provided for operating the Hyddi preventer. When requissed necessary and regulated to operating the Hyddi preventer. When requissed a second pressure reduces that the control operating fluid pressures to non preventer. Gull Legion 140.38 hydraulte oil, on equivalent or better, is to be used as the fluid to operate the hydraulte equipment.

The choir monitold, this flow line, and choire lines are to be supported by metal stands and adequately awhoured. The choire flow line and choire lines that lines that lines and choire lines that has been as a straight as possible and without their berds. Eary and sole occess to be maintained to the choke monitold. All volves are to be selected for operation in the presence of old, gas, and dilling it was a selected to the dilling spool and all ron type preventers must be equipped with stem varies, universal joints if needed, and hard wheels which are to extend beyond the citys 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.

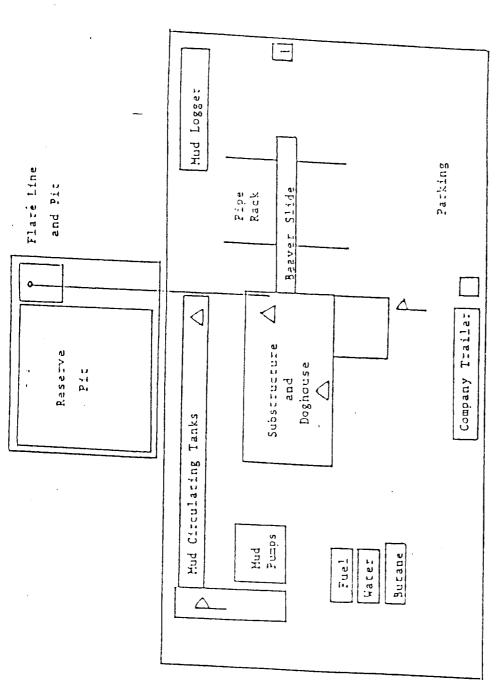
There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. 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.
- H. Well testing:
  - a. There will be no DST's on this well.



 $\triangle$  - H2S Monttors with alarms at the bell nipple and shale shaker

P - Wind Direction Indicators

- Safe 3t'ecting areas with caution signs and procedure breathing equipment than 150 feet from wellnead, I designates primary area