Form 3160-3 (July 1992)			*	100	TATY NO	1864	·	1		
Ray Westnil		UNIT	ED STATES	1 (4,7) 3	/ / / / / / /	3 2 0 -		N		
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BUREAU OF LAND MANAGEN				Nosse	EFF. DATE 10/12/96			E DESIGNATION AND SERIAL NO. O NM-86144		
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b. TYPE OF WELL							1	(GREEMENT NAME		
ON	GAS			SINGLE		MULTIPLE	· -	8. FARM OR LEASE NAME,		
WELL X	WELL	отн	ER	ZONE	x	ZONE			WELL NO. Federal #3	
2. NAME OF OPERATOR			······································					S. API WELL NO.		
Ray Westall							ľ	30-025-	22/\\	
3. ADDRESS AND TELEPHONE NO.								10. FIELD AND POOL, OR W	H DCAT	
P.O. Box 4, Loco Hills, NM 88255 505-677-2370						1	Crazy Hors			
4. LOCATION OF WELL (REPO			IN ACCORDANCE WITH	ANY STATE	REQUIREMENTS)		1	11. SEC., T., R., M., OR BLK		
AT SURFACE	1980' FNL	& 1980' FEL					1	AND SURVEY OR AREA		
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at proposed prod. Zon	E	Same		11 14				12 COUNTY OR PARISH	13. STATE	
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		oco Hills. New f								
16. DISTANCE FROM PROPOS		OCO MIIS. NEW I	Mexico	l.a			T			
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23.			PROPOSED CAS	SING AND C	EMENTING PR	OGRAM		*		
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7 7/8"		5/8" J-55	32# ST&C 8RD		2950		500 SXS "C" Circulated			
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SIGNED	ahb b	N	Randall Harris	TITLE	Geologist			DATE 9/	//0/	
	HI	/							/	
(THIS SPACE FOR FEDERAL O	R STATE OFFI	ICE USE)								
PERMIT NO.	····		···	APPROVAL D	ATE					
		THAT THE APPLICANT	HOLDS LEGAL OR EQUITABLE	TITLE TO THOSE I	DIGHTS IN THE SUBJECT	LEASE WHICH WOUL		THE APPLICANT TO CONDUCT OPERA	THOMS THERMON,	
CONDITIONS OF APPROVAL IF	ANY:									
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APPROVED BY	s/ Gar	y Bowen	6	TT* -		Arms 48-		00	7 1996	
				TITLE		Area Ma	nager	DATE	• ~~	
TITLE 18 U.S.C. SECTION 1	001, MAKES	IT A CRIME FOI	R ANY PERSONS KN	OWINGLY A	ND WILLFULLY	TO MAKE TO	ANY DE	PARTMENT OF AGENCY	OE TUE	

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 Box 1980, Hobbs, NM 38241-1980

District II PO Drawer DD, Artesia, NM \$8211-0719

District III

1000 Rio Brazos Rd., Aztec, NM 37410

District IV

PO Box 2088, Santa Fe, NM \$7504-2088

State of New Mexico

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT API Number 133*90* 30-025-33627 6 Ware Weil Number Gunsmoke Federal 3 OGRID No. Operator Name ' Elevation 3611 Ray Westall, Operator 10 Surface Location UL or tot Bo. Township Section Range Lot Ida Feet from the North/South line Feet from the East West line County G 24 19 S 32 E 1980 North 1980 East Lea 11 Bottom Hole Location If Different From Surface UL or sot Do. Townsip Lot ida North/South line Foot from the East/West inc Саваку 12 Decicated Acres 12 Joint or Infill | 16 Consolidation Code | 15 Order No. NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN 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 informance and belief 980 3609.0 36101.1 1980' 3610.6 3610.6 I hereov certify that the well location shown on this plat July 24 Date of Survey STATE OF THE PERSON NAMED IN COLUMN TO STATE OF THE PERSO

Certificate Number

APPLICATION FOR DRILLING

Ray Westall Gunsmoke Federal #3 1980' FNL & 1980' FEL Section 24 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 5800 Bone Springs 7650

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

Water Quaternary:

0-180'

Oil and Gas

Delaware: 5800-7550'

4. Casing program:
All casing will be new

Hole Size	Interval	Casing
17 1/2"	0-500'	13 3/8" 48# H-40 ST&C
11"	55 0-2950'	8 5/8" 32# J-55 ST&C
7 7/8"	295 0-TD	5 1/2" 17# J-55 ST&C

THE

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	Type	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
GUNSMOKE FEDERAL #3

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 1650'of Access road is needed starting on the Gunsmoke Federal #3 Location and going North.

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 5.0 miles, South 1 mile, west 1/2 mile, south to Gunsmoke Fed. #4. West to Gunsmoke #3, the new road will start and go north 1650' to location.

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

 If productive a 3" SDR 7 poly line will be laid along existing ROW the battery located on the Gunsmoke Federal No.1 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.
 - 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:

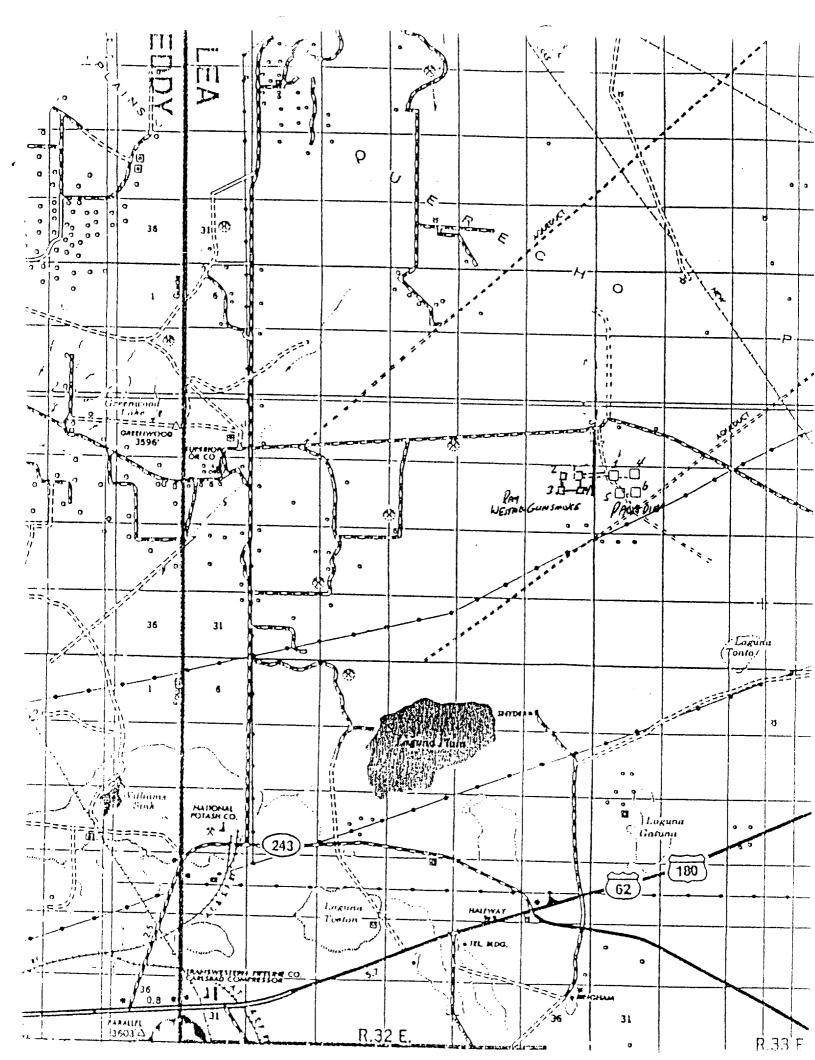
- A. Topography: The land surface in the vicinity of the wellsite is sandy loam soil.
- B. Flora and Fauna: The vegetation cover consists of prairie grass, greasewood and miscellaneous desert growth. No wildlife was observed, but wildlife in the area probably includes those typical of semi-arid desert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

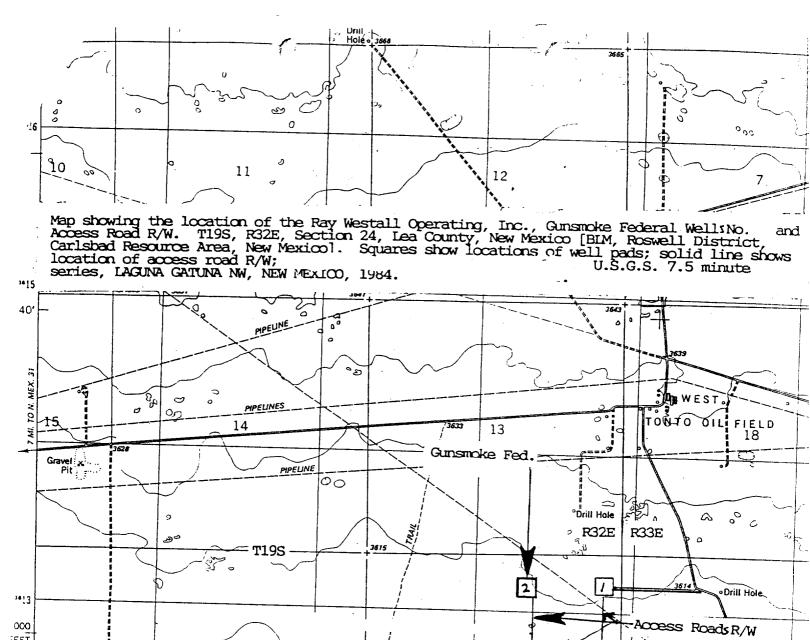
Ray Westall P.O. Box 4, Loco Hills, NM 88255 (505) 677-2370

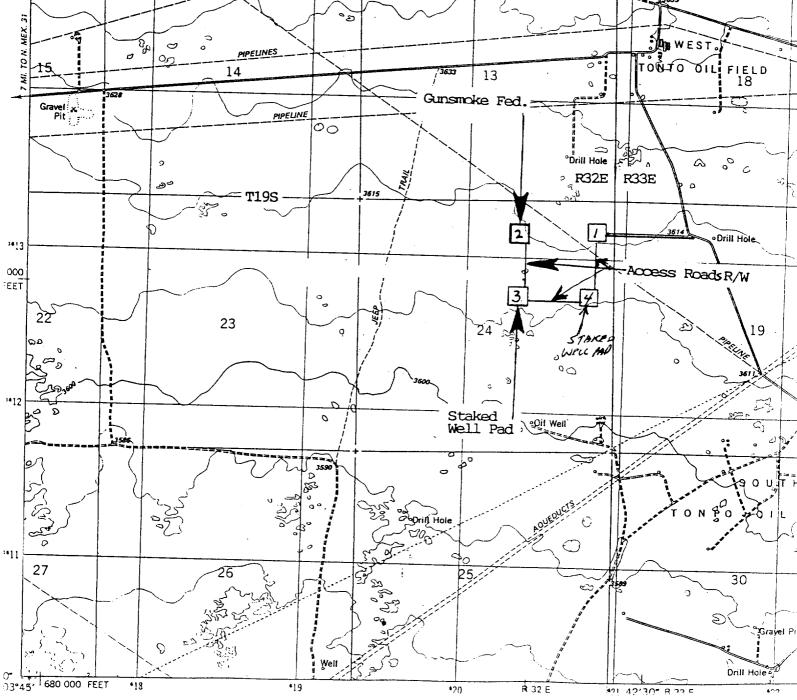
13. Certification:

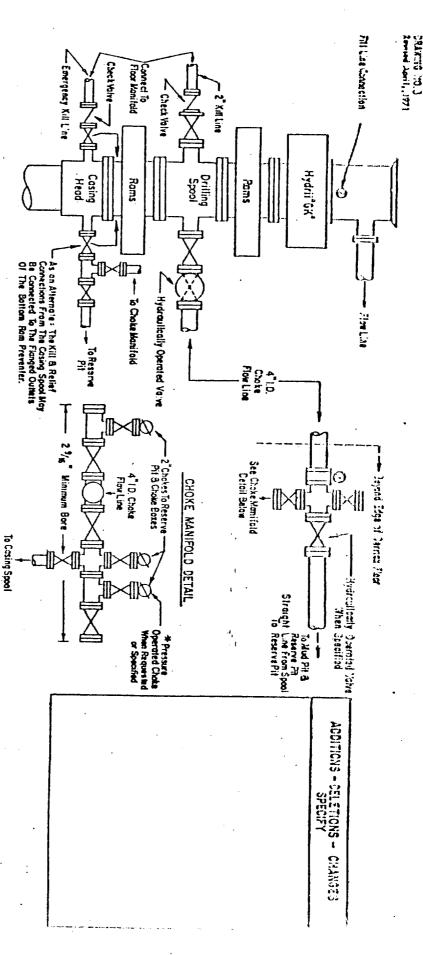
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct: and that the work associated with 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.

Harris









3000 PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

preventer; valves; chokes and connections as illustrated. If a topered drill string is used, a ram preventer must be provided for each size of drill pipe. Casing and tubing rams to fit the preventerione as a second of the ram preventer may be used for connecting to the 4-inch I.D. choke flow the and kill line, except when oir or gas drilling. The substructure height shall be suflicient to install a rotating blowout preventer. The blowout p. eventer assembly shall consist of one blind ram preventer and one pipe ram preventer, both hydraulically operated; a Hydril "GX"

ous source of power, capable of fluid charging the total accumulator volume from the nitrogen precharge pressure to its rated pressure within Minimum operating equipment for the preventers and hydraulically operated valves shell be as follows: (1) Multiple pumps, driven by a continu-

pumps; or there shall be additional pumps operated by separate power and equal in performance a precharge of nitragen of not less than 750 PSI and connected so as to receive the aforementianed fluid charge. With the charging pumps shut down, the pressurized fluid volume stared in the accumulators must be sufficient to clase all the pressure-operated devices simultaneously within the remaining occumulator fluid volume at least percent of the original. (3) When equested, an additional source of power, remains and equivalent, is to be available to operate the above minutes. Also, the pumps are to be connected to the hydraulic operating system which is to be a closed system. (2) Accumulators with seconds; offer closure, the remaining accumulator pressure shall be not less than 1000 PSI with

The closing manifold and renote closing manifold shall have a separate control for each pressure-operated device. Controls are to be lobeled, 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 available to limit operating fluid pressures to ram preventers.

Guif Legion Ma. 38 hydraulic eil, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

the derrick substructure. All other valves are to be equipped with handles. line valves connected to the drilling spool and all ram type preventers must be equipped with stem extensions, universal joints If needed, and hand wheels which are to extend beyond the edge of and without sharp bends. Easy and sofe access is to be maintained to the choke manifold. All volves are to be selected for operation in the presence of all, gas, and drilling funds. The choke flow The choke manifold, choke flow line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line and choke lines shall be constructed as straight as possible

* To include derrick floor mounted 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.

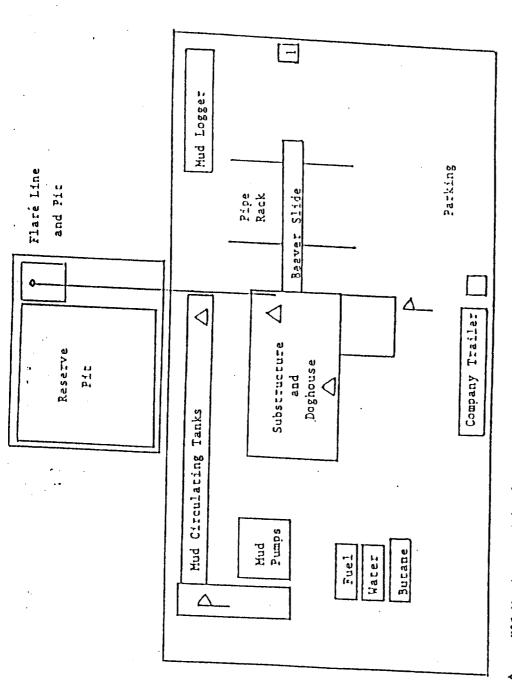
2. H2S SAFETY EQUIPMENT AND SYSTEMS

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



 Δ - H2S Monfrors with alarms at the bell nipple and shale shaker

- Wind Direction Indicators

- Safe 31 effing greas with caution signs and profestive breathing equipment