New Mexico Oli Conservation Edivision, Phonist i

1625 N. Brounch Unive Hobbe, NM 98%40

POOL CODE EFF. DATE

APINO. 30-025

B-04-28

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000 Form 3160-3 (August 1999) **UNITED STATES** 15 Lease Serial No. DEPARTMENT OF THE INTERIOR 2844 **BUREAU OF LAND MANAGEMENT** 6. If Indian, Allottee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER N/A 7. If Unit or CA Agreement, Name and No. la. Type of Work: XX DRILL ☐ REENTER N/A 8. Lease Name and Well No. 1b. Type of Well: Dil Well Gas Well Other ☐ Single Zone ☐ Multiple Zone LONE RANGER #3 2. Name of Operator 9. API Well No. 30-025-3651 SHACKELFORD OIL COMPANY 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory We TEAS YATES SEVEN RIVERS P O BOX 10665, MIDLAND, TX.79702 (432) 682-9784 11. Sec., T., R., M., or Blk. and Survey or Area 4. Location of Well (Report location clearly and in accordance with any State requirements,*) At surface 1650' FNL & 330' FWL R-111-P Petest At proposed prod. zone 1650' FNL & 330' FWL SEC. 10, T-20S, R-33E 13. State 12. County or Parish 14. Distance in miles and direction from nearest town or post office* NM LEA 18.5 miles SW of Maljamar, NM 15. Distance from proposed* 17. Spacing Unit dedicated to this well 16. No. of Acres in lease location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 160 40 3301 20. BLM/BIA Bond No. on file 18. Distance from proposed location* to nearest well, drilling, completed, 19. Proposed Depth applied for, on this lease, ft. 3500 3104 (943C-3TF) N/A 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 30 Days 12-15-2003 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form: 4. Bond to cover the operations unless covered by an existing bond on file (see 1. Well plat certified by a registered surveyor. Item 20 above). 2. A Drilling Plan. Operator certification. 3. A Surface Use Plan (if the location is on National Forest System Lands, the Such other site specific information and/or plans as may be required by the SUPO shall be filed with the appropriate Forest Service Office). authorized officer. 25. Signapure Name (Printed/Typed) Don G. Shackelford 11-7-2003 Title OWNER Approved by (Signature) /s/ Carsten F. Goff Name (Print/sty@arsten F. Goff DEC 2008 Title Office STATE DIRECTOR NM STATE OFFICE ACTING A fallidation approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Dide 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency hited tates any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction OPER. OGRID NO. PROPERTY NO.

SHACKELFORD OIL COMPANY

SCHEDULE OF PERMIT AND EXHIBITS

- 1. Well Locators and acreage Dedication Plat.
- 2. Application to Drill Drilling Plan.
- 3. Multi-Point Surface Use and Operations Plan.



District I 1625 N. French Dr., Hobbs, NM 88240

State of New Mexico Energy, Minerals & Natural Resources

Form C-102 Revised March 17, 1999

District II 811 South First, Artesia, NM 88210

District III

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

1000 Rio Brazos Rd., Aztec, NM 87410 District IV

2040 South Pache	o, Santa Fe	, NM 87505			•		•	AME	NDED REPORT
		W	ELL LC	CATIO	N AND ACR	EAGE DEDIC	ATION PLA	T	
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Property Code 32926 Lone Ranger					⁴ Property ?	isme		5	Well Number #3
205	'OGRID No. 20595 Shackelford Oil Company						² Elevation 3556		
¹⁰ Surface Location									
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¹² Dedicated Acre	3 Joint o	r Infill 14 (Consolidation	Code 14 Or	rder No.				
NO ALLOW	ABLE WI	LL BE AS	SIGNED	TO THIS	COMPLETION	UNTIL ALL INT	ERESTS HAVI	E BEEN CONSO	LIDATED OR A

NON-STANDARD LINIT HAS BEEN APPROVED BY THE DIVISION

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APPLICATION TO DRILL DRILLING PLAN

In conjunction with Form 3160-3, Application for Permit to Drill, Shackelford Oil Co. Submits the subject well in accordance with Bureau of Land Management requirements.

- 1. The geologic surface formation is Quaternary.
- 2. The estimated tops of geologic markers are;

1.	Anhydrite	1350'
2.	Tansill	2950'
3.	Yates	3100'
4.	Seven Rivers	3350'

3. The estimated depths at which water, oil, or gas-bearing formation are expected:

Water 350'
Oil and Gas 3350'-3700' Yates-Seven Rivers

4. Casing

8 5/8" 24# J-55 0-1400' 5 ½" 15.50# J-55 0-3500'

- 5. Cement
 - A. Cement from 1300' to surface with 310 sx 35/65 POZ Class C and 135 sx Class C.
 - B. Cement from 3400' with 450 sx 35/65 POZ Class C and 135 sx Class C.
- 6. Pressure control equipment: the blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a 3000 psi double ram type preventer for drilling the intermediate hole. The blowout preventer stack for the production hole will consist of at least a double-ram blowout preventer and annular preventer rated to 5000 psi working pressure. A diagram of the BOPs and choke manifold is attached. All BOPs and accessory equipment will be tested according to Onshore Order No.2 beofre drilling out.
- 7. Mud program: See Exhibit #7
- 8. No abnormal pressures are expected
- 9. Testing, Logging and Coring Programs

Wireline logging program: See Exhibit #7



10. Anticipated starting date: December 15, 2003



MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Lone Ranger #3 1650' FNL and 330' FWL Sec. 10, T-20-S, R-33-E Lea County, New Mexico

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 necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of operations so that a complete appraisal can be made of the environmental effects associated with the operations.

1. EXISTING ROADS

- A. The wellsite and elevation plat for the proposed Lone Ranger #3 are reflected on Exhibit #2.
- B. All roads to the location are indicated on Exhibit #3.

C. **DIRECTIONS:**

- 1. Proceed west from Hobbs on US 62 180 for 32 miles.
- 2. Turn right on Caliche Road and continue 1.5 miles to the location on the left.

2. PLANNED ACCESS ROAD

A. See Item 1.

3. **LOCATION OF EXISTING WELLS**

A. The locations of existing active wells located in and immediately adjacent to Section 10 are highlighted on Exhibit #4.

4. LOCATION OF EXISTING AND PROPSED FACILITIES

A. There are no producing wells on this lease.

5. LOCATION AND TYPE OF WATER SUPPLY

A. It is planned to drill the proposed well with a cut-brine water system or with produced water. The water will be obtained from commercial source and will be hauled to location by truck over existing and proposed lease roads marked on Exhibit #3.

6. SOURCES OF CONSTRUCTION MATERIALS

A. Caliche required for construction of the location pad and access road will be obtained from caliche on the location or from the nearest BLM approved pit.

7. METHODS OF HANDLING WASTE DISPOSAL

- A. Drill cuttings will be disposed of in the reserve pits.
- B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.

 The reserve pit will be fenced on three sides and will be totally isolated upon removal of the rig.
- C. Water produced during operations will be collected in steel tanks or a reserve pit, if volumes prove excessive. After placing the well on production, all water will be collected in tanks.
- D. Oil produced during operations will be stored at the existing battery and sold through transport trucks.
- E. Current regulations pertaining to disposal of human waste will be complied with.
- F. Trash, waste paper, garbage and junk will be kept in a trailer and disposed of at an approved landfill. All waste material will be contained to prevent scattering by the wind.
- G. All trash and debris will be removed from the well site within 30 days after drilling and/or completion operations are terminated. At the point'the reserve pit is dry it will be backfilled and reclaimed as outlined by BLM specifications. Only the portion of the drilling pad used by production equipment will remain in use. If deemed dry only a dry hole marker will remain.

8. **ANCILLARY FACILITIES**

A. No ancillary facilities will be required for this well.

9. **WELLSITE LAYOUT**

- A. Exhibit #6 shows the dimensions of the well pad and reserve pits and the location of major rig components.
- B. The ground surface at the drilling location is essentially flat.
- C. The reserve pits will be plastic lined.
- D. The pad and pit area have been staked and flagged.

10. PLANS FOR RESTORATION OF THE SURFACE

- A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleared 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 Bureau of Land Management and the United States Geological Survey 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. SURFACE OWNERSHIP

- A. The wellsite is owned by the Bureau of Land Management.
- B. The surface location will be restored in compliance with BLM rules.

12. **TOPOGRAPHY**

- A. The wellsite and access route are located in a flat area with little relief.
- B. The top soil at the wellsite is sand.
- C. The vegetation cover at the wellsite is moderately sparse, with mesquite, grasses, yucca, scrub oak, and weeds.
- D. No wildlife was observed but it is likely that rabbits, lizards, insects, and rodents traverse the area. The area is used for cattle grazing.
- E. There are no ponds, lakes, streams, or rivers within several miles of the wellsite.

- F. The wellsite is located on federal surface.
- G. There is no evidence of any archaeological, historical, or cultural sites in the vicinity of the location.

13. **OPERATOR'S REPRESENTATIVES**

A. The field representatives responsible for assuring compliance with the approved surface use plan are:

Don G. Shackelford Shackelford Oil Company 203 W. Wall, Suite 401 Midland, Texas 79701 Phone (432) 682-9784 (office) (432) 694-0262 (home)

W. L. Shackelford 512 New Mexico Drive Roswell, New Mexico 88201 Phone (505) 622-5902

ROAD FOR LONE RANGER #1

1. The road for the Lone Ranger #1 well, has approximately 1 ½ miles of existing road to the Chesapeake Energy, Inc. well, WTYSRU #444, located, 660' FSL and 660' FEL, Section 4, T-20S, R-33E. This well is located on fee land consisting of the S/2, SE/4, Section 4. The new road which will be necessary, will be 660' on the free land and approximately 330' on Federal acreage (this will be on a currently existing 2 track road).

ROAD FOR LONE RANGER #2

2. The road for the Lone Ranger #2, has approximately 1 ½ miles of existing road to the Chesapeake Energy, Inc. well, WTYSRU #444, located 660' FSL and 660' FEL, Section4, T-20S, R-33E. This well is located on fee land consisting of the S/2, SE/4, Section 4. The new road which will be necessary, will be 660' on the free land and 330' Southeast on Federal acreage to the location at 330' FNL and 330' FWL, Section 10, T-20S, R-33E.

ROAD FOR LONE RANGER #3

3. The road for the Lone Ranger #3, has approximately 1 ½ miles of existing road to the Chesapeake Energy, Inc. well, WTYSRU #444, located 660' FSL and 660' FEL, Section 4, T-20S, R-33E. This well is located on fee land consisting of the S/2, SE/4, Section 4. The new road will consist of the road from the WTYSRU #444 to the Lone Ranger #2 and 1320' from the Lone Ranger #2 to the Lone Ranger #3, due south.

ROAD FOR LONE RANGER #4

4. The road for the Lone ranger #4, has approximately 1 ½ miles of existing road to the Chesapeake Energy, Inc. well, WTYSRU #945, located 2412' FNL and 330' FEL, Section 9, T-20S, R-33E. The new road necessary will 660'.

14. **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 operations proposed herein will be performed by Shackelford Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

11-7-2003

Date

Don G. Skackelford

WP/aptodril.lr3

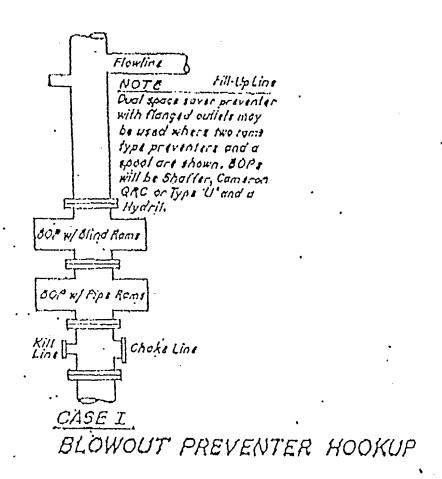
Exhibit LAGUNA GATU Existing RoAD NEW 7.5 MINUTE SER LONE RANGER #3 8W/4 LAQUNA GAT ROAD MAP 1710 000 FEET •25 40' 27 28 FDHII HOL oDrill Hole Drill Hole 34 Drill Hole ... Gravel White and the Į.s Drill Hole LONE RA •4. oDrill Hole Lone Ranger Sec. 10 Location Hole 0 0 Oil Well : Jases ELD Drill Hole 15 Drill Hole 'Laguna Gatuna; NM'; Scale: 1" = 0.379Mi 610Mt 2,000Ft,



301 BOYD, E ALLEN, TEXAS 75002 (214) 727-8367

P.O. BOX 589 ALLEN, TEXAS 75002

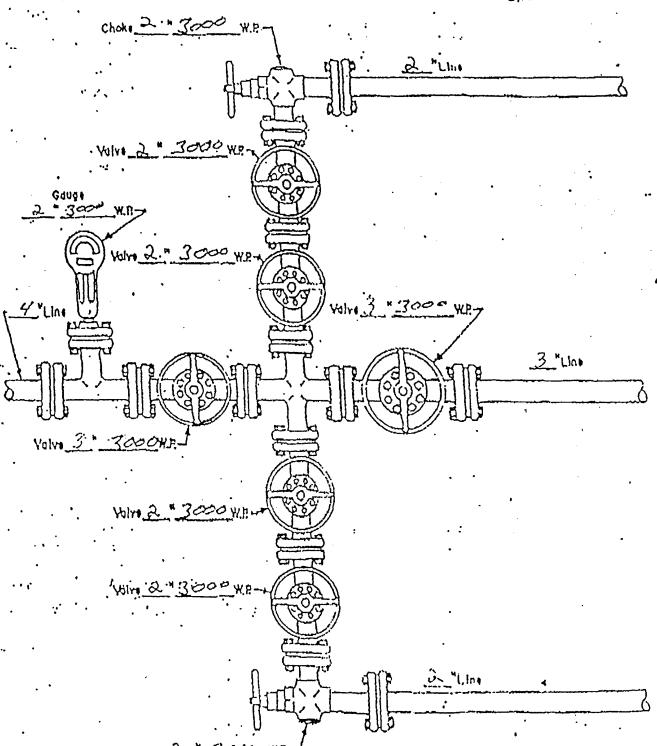
In Texas (800) 442-5224



3000th Working Pressure Exhibit

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Exhibit 1-A



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Exhibit #4 LONE RANGER #3 T-20-S, R-33-E, Lea County

Section 3

Well Name	Location
Viper 3 Federal #1 Tonto Federal #3 Python 3 Federal #1 Python 3 Federal #2 Python 3 Federal #3 Python 3 Federal #7 Python 3 Federal #4 Python 3 Federal #6	2200' FSL & 1600' FEL 330' FSL & 330' FEL 1900' FSL & 1650' FEL 855' FSL & 1650' FEL 2200' FSL & 1330' FEL 1980' FSL & 2310' FWL 1980' FSL & 2310' FWL
	Section 4
West Texas Yates Seven Rivers Unit #434 Scharbauer 4 #2 West Texas Yates Seven Rivers Unit #444 Anasazi 4 State #2 West Texas Yates Seven Rivers Unit #433 Anasazi 4 State #1 Anasazi 4 Federal #5K Anasazi 4 Federal #6 Tuna Boat 4 Federal #1 West Texas Yates Seven Rivers Unit #443	660' FSL & 1980' FEL 330' FSL & 2055' FEL 660' FSL & 660' FEL 1650' FSL & 1980' FEL 1650' FSL & 1980' FWL 1650' FSL & 1981' FWL 2150' FNL & 660' FEL 1650' FSL & 1980' FWL
	Section 9
ARC Federal #1 West Texas Yates Seven Rivers Unit #923 West Texas Yates Seven Rivers Unit #922 West Texas Yates Seven Rivers Unit #913 Federal #4 West Texas Yates Seven Rivers Unit #933 Federal #5 West Texas Yates Seven Rivers Unit #932 Anasazi 9 Federal #1 West Texas Yates Seven Rivers Unit #931 West Texas Yates Seven Rivers Unit #931 West Texas Yates Seven Rivers Unit #921	660' FSL & 1980' FEL 1980' FSL & 1650' FWL 1980' FNL & 1650' FWL 1980' FSL & 660' FWL 990' FSL & 990' FWL 1980' FSL & 2310' FEL 990' FSL & 2050' FWL 2310' FNL & 2310' FEL 1980' FNL & 1980' FEL 990' FNL & 2110' FEL 330' FNL & 2310' FL

330' FNL & 990' FWL

Federal 9 #4

Section 9 (cont'd)

Well Name	Location
Anasazi 9 Federal COM #2	830' FSL & 1980' FEL
Anasazi 9 Federal #3	2000' FNL & 2080' FEL
West Texas Yates Seven Rivers Unit #941	330' FNL & 990' FEL
West Texas Yates Seven Rivers Unit #942	1650' FNL & 990' FEL
West Texas Yates Seven Rivers Unit #943	2310' FSL & 990' FEL
West Texas Yates Seven Rivers Unit #944	990' FSL & 990' FEL
West Texas Yates Seven Rivers Unit #924	2560' FNL & 2210' FL
West Texas Yates Seven Rivers Unit #945	2612' FNL & 330' FEL
Section 10	
Tonto Federal #1	1980' FNL & 660' FEL
Federal 10 #1	1700' FSL & 330' FWL
Tonto Federal #2	660' FNL & 330' FEL
Section 16	1

330' FNL & 2310 FL

West Texas Yates Seven Rivers Unit #611

NOTE:

Proposed Well - Shackelford Oil Company, #4 Lone Ranger - 2310' FSL and

330' FWL

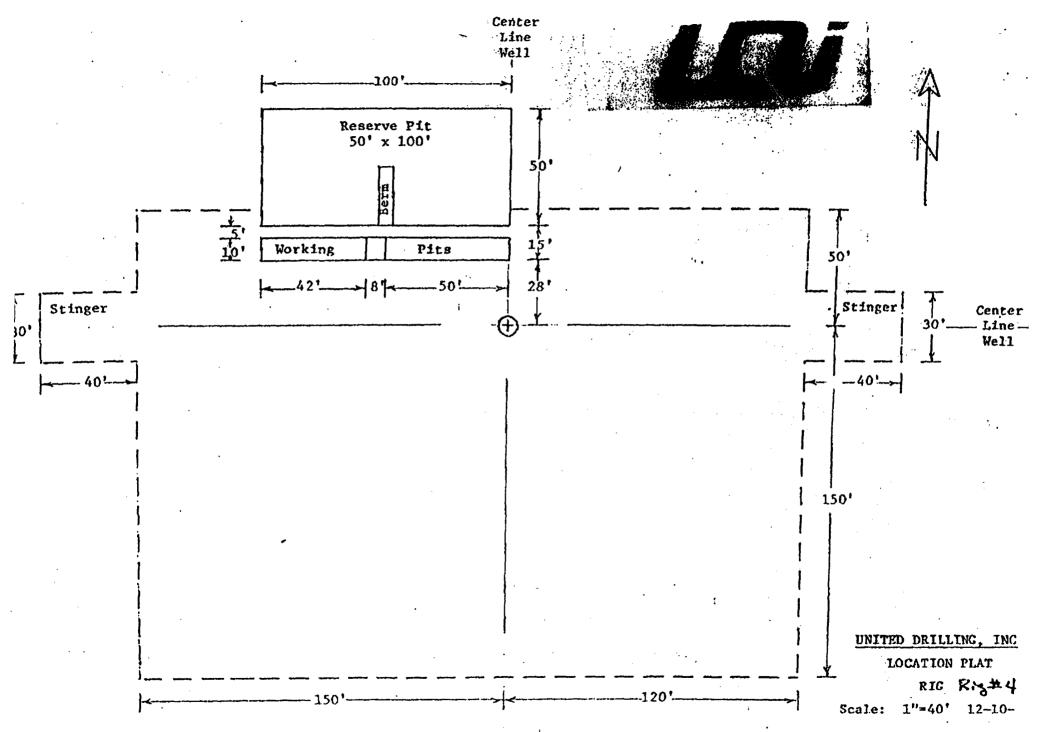
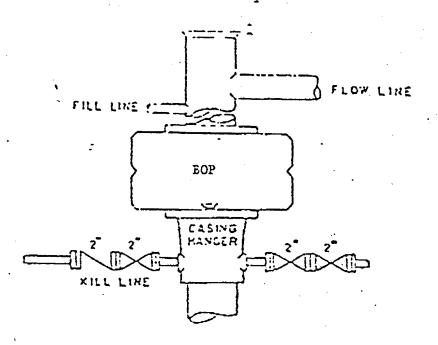


Exhibit 6



ANNULAR BOP STÁCK 1000#

EXHIBIT #7 DRILLING PROGNOSIS LONE RANGER #3

Location

Section 10, T-20-S, R-33-E

Proposed Depth and

Objective:

Yates Seven Rivers - 3500'

CASING PROGRAM:

8 5/8"

J-55 24#

1400'

5 1/2"

J-55 15.50#

TD

Logging Program:

A compensated neutron/formation density with gamma ray, and caliper will be run for porosity and lithology. A dual induction will be run for water saturation analysis. The gamma ray will be run from TD to the surface.

HOIII 11

Mud Logging:

Samples will be caught every 10' from 3000' to TD.

Mud Program:

0-1400'

Spud 12 1/4" hole with fresh water containing gel and lime, if necessary for hole cleaning. Mud weight should be 8.5 - 8.7 LB/GAL with a velocity of 33-35 sec/1000cc.

1400' - 3400'

Drill out below surface pipe using 7 7/8" bit with 10 LB/GAL brine for drilling the native salt section. Lime will be added to maintain a ph of 9.5 - 10.00.

SHACKELFORD OIL COMPANY

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

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 (1128).
- 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 training session just prior to encountering a known or probable II2S zone (within 3 days or 500 feet) 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 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. H2S SAFETY EQUIPMENT AND SYSTEMS

Note: 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.

1. Well Control Equipment:

- A. Flare line with electronic igniter or continuous pilot.
- B. Choke manifold with a minimum of one remote choke.
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.

2. Protective equipment for essential personnel:

- A. Mark II Survivor 30-minute units located in the dog house and at briefing areas, as indicated on well site diagram.
- 3. H2S detection and monitoring equipment:
 - A. 2 portable H2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
 - B. 1 portable SO2 monitor positioned near flare line.

4. 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. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

5. Mud program:

A. The mud program has been designed to minimize the volume of H2S circulated to the surface. Proper mud weight, safe drilling practices, and the use of H2S scavengers will minimize hazards when penetrating H2S bearing zones.

6. Metallurgy:

A. All drill strings, casing, tubing wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

·7. Communication;

- A. Radio communications in company vehicles including cellular telephone and 2-way radio.
- B. Land line (telephone) communications at field office.

8. Well testing:

A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity which are necessary to safely and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill stem testing operations conducted in an H2S environment will use the closed chamber method of testing.