O1 (July 1992)

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P. O. B. SUBMIT IN TRIPLATE.

UNITED STATES HOURS, NEW MENERS 182240

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT						5. LEASE DESIGNATION AND SERIAL NO. NM-94622	
APPL	G. IF INDIAN, ALLOTTER OR TRIBE NAME						
1a. TYPE OF WORK	-						
DR b. TIPE OF WELL	RILL 🔀	DEEPEN []			7. UNIT AGREEMEN	T NAMB	
WELL T	VELL OTHER		SINGLE MULTI	PLB	8. FARM OR LEASE NAME	, WELL NO.	
2. NAME OF OPERATOR	T		EAE /600	2770	Pearl 33 Federal≉		
Read & Ste			505/622-	3//0	9. API WELL NO. 30-025-34481		
P. O. Box			ell, NM 88202		10. FIELD AND POO	L, OR WILDCAT	
4. LOCATION OF WELL (I At sufface	deport location clearly an	d in accordance with an	y State requirements.*)		_	.dge Bońe Sp 	
990 At proposed prod. 201	_	FEL			AND SURVEY OR	AREA	
14. DISTANCE IN MILES	Same AND DIRECTION FROM NEA	REST TOWN OR POST OF	rice•		Sec. 33	3-T19S-R34E	
	SW of Hobbs,			·	Lea	New Mexic	
15. DISTANCE FROM PROP LOCATION TO NEARES PROPERTY OR LEASE (Also to Dearest dr)	T LINE, FT. g. unit line, if any)	330′	No. of acres in least	TO TH	F ACRES ASSIGNED HIS WELL	40	
 DISTANCE FROM PROI TO NEAREST WELL, I OR APPLIED FOR, ON TH 	RILLING, COMPLETED.	N/A 19.	10,400'	20. ROTAE	Rotary		
21. BLEVATIONS (Show wh		ACCOMO ACCO	São o Mão Acedemão d	10000	22. APPROX. DATE	WORK WILL START	
3664′	GL 🥨	apran cunti	ROLLED WATER I	BASIN	August	1. 1998	
24 3.		PROPOSED CASING A	ND CEMENTING PROGRA	M			
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	_	QUANTITY OF CE	MENT	
17_1/2" 11"	13 3/8" H40 8 5/8" J55		4.250′	Circ.	- · ~ / / / / / ~ ~	" to surf.	
7 7/8"	5 1/2"N-80		10,400'		pack w/1000 pack w/1000		
Mud Pı	-		l Wt. Vis.	W/L Cont	trol		
0' -	I I Obli mater	•	- -	o W/L cont			
	4,250': Brine mud: 10,400': Fresh water i	10.0 pp mud w/starch: 8.4 pp		o W/L cont //L control			
		• •	. •				
BOP Pr A 11" 50		ne I WS BOD with a	5000 psi wp 11" GK H	odel will	ha installad as the	12	
3/8" cas	ing. Casing and BOP v	will be tested before d	lrilling out with 11". Bo	OP will be	tested daily as 30	00	
psi wp s	ystem.		•			/	
APPROVAL SUBJECT TO				OPER. OSAID NO. <u>/89/7</u> PROPERTY NO. <u>2/5 0</u>			
AND AND A SECOND ASSESSMENT OF THE PROPERTY OF					CODE 50	7 -	
		SPECIAL STIP	I II ATIONS	EFF [DATE 8-6	-98	
		ATTACHED	OLA HONO		0.30-025	5-34481	
N ABOVE SPACE DESCRIBE	E PROPOSED PROGRAM: If	proposal is to deepen, give da	ala on present productive zone s	and proposed r	new productive zone. If	proposal is to drill or	
eepen directionally, give perting.	nent data on subsurface location	ns and measured and true vert	ical depths. Give blowout prever	nter program, if	f any.		
RIGNED DECE	Egik Smi	<i>The</i>	Agent for: Read & Steven	s, Inc	. DATE Jul	y 10, 1998	
(This space for Feder	al or State office use)						
PERMIT NO.			APPROVAL DATE				
Application approval does n	ot warrant or certify that the app	olicant holds legal or equitable	title to those rights in the subject l	ease which wou	ald entitle the applicant to	conduct operations thereon.	
CONDITIONS OF APPROVAL	, IP ANY:	Acting					
(ORIG.	SGD.) ARMANDO A. LOI	PEZ As	sistant Field Office M		Action.	H . 8	
APPROVED BY		TITLE La			DATE	U 3 19 98	
		*See Instructions	On Reverse Side				

Title 18 U.S.C. Section 1001, makes it a crime for any person 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.

06 21 d 01 70 9661

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DISTRICT I P.O. Bex 1980, Hobbs, NM 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office

JUNE

Date Surveyed
Signature & Seal of

W.O. Num. 98-14-0940

Certificate No. RONN DE EIDSON. E EIDSON. MEDONALD.

23, 1998

JLP

3239 12641 12185

State Lease — 4 Copies Fee Lease — 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Astec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

DISTRICT IV P.O. Box 2066, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

			WEIL IO	CATION	AND ACKE	AGE DEDICATI	ON PLAT		_
	Number	1/1/01		Pool Code		Ouail Ridge	Pool Name	50	
		4481	50	460		Quail Ridge Bone Spring So.			
Property (Code			רבי		perty Name Well Number			aber
2/50 OGRID NO		1		PEA		EDERAL		2	
1 0 4 1	o. ~/			RFA	-	STEVENS, INC. Elevation 3664			
1811	ı						· · · · · · · · · · · · · · · · · · ·	3004	
		1	1 -		Surface Lo		r <u> </u>	T	
OL or lot No.	Section 33	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	Count
P	33	19 S	34 E		990	SOUTH	990	EAST	LEA
			Bottom	Hole Loc	eation If Diff	erent From Sur	face		
JL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	Count
Dedicated Acre	Joint o	or Infill Co	nsolidation (Code Or	der No.	,			
40									
	1						contained herei	ny certify the the in n is true and compl wledge and belief.	
	 				 +		Signature	ge R. S.	neth
	 				1		Printed Nam Read & St	Smith, age	nt ro
					1		July 10,	1998	
							SURVEYO	OR CERTIFICAT	NOIT
	 				 		on this plat w actual surveys supervison, as	y that the well locate as plotted from field made by me or ad that the same is se best of my belia	i notes o under m true ar

366

3661.61

066

NM-94622

Read & Stevens, Inc.

3666.0

3663.5'

- 990'

APPLICATION FOR DRILLING READ & STEVENS, INC.

Pearl 33 Federal, Well No. 2

990' FSL & 990' FEL, Sec 33-T19S-R34E

Lease No.: NM-94622 (Development Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well, Read & Stevens, Inc. submits the following items of pertinent information in accordance with BLM requirements:

- 1. The geologic surface formation is recent Permian with quaternary alluvium and other surficial deposits.
- 2.. The estimated tops of geologic markers are as follows:

Rustler	1,500'	Queen	3,600'
Top of Salt	1,720'	Delaware	5.540'
Base of Salt	3,180'	Bone Spring	8,180'
Yates	3,406'	T.D.	10,400'

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

Water: Surface water in the Triassic between 80' - 230'.

Oil: Possible in the Delaware below 5540' and Bone Spring below 8,180'.

Gas: None expected.

- 4. Proposed Casing Program: See Form 3160-3.
- 5. Proposed Control Equipment: See Form 3160-3 and Exhibit "E".
- 6. Mud Program: See Form 3160-3.
- 7. Auxiliary Equipment: Blowout Preventer, gas detector, Kelly cock, pit level monitor, flow sensors and stabbing valve.
- 8. Testing, Logging, and Coring Program:

Drill Stem Tests: None unless warranted.

Logging:

T.D. to 4250':

G/R, CNL-FDC, DLL, MSFL

4250' to surface:

G/R, neutron

Coring:

None planned.

- 9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the mud weight. Estimated BHP = 4160 psi (evac. hole) with temperature of 165° .
- 10. H₂S: None expected. None in previously drilled wells, but a Drilling Operations Plan, Exhibit "F", is being submitted to cover this contingency.
- 11. Anticipated starting date: August 1, 1998.
 Anticipated completion of drilling operations: Approx. 3 weeks.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

READ & STEVENS, INC.

Pearl 33 Federal, Well No. 2 990' FSL & 990' FEL, Sec. 33-T19S-R34E Lea County, New Mexico Lease No.: NM-94622 (Development Well)

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction activities and operations plan, to be followed in rehabilitating the surface environmental effects associated with the operations.

1. EXISTING ROADS:

- A. Exhibit "A" is a portion of a USGS/BLM Topo map showing the location of the proposed well as staked. The well site location is approximately 50 road miles northeast of Carlsbad, New Mexico or 30 road miles southwest of Hobbs, NM. Traveling east from Carlsbad there will be approximately 48 miles of paved highway and .3 miles of gravel ranch/oilfield road.
- B. Directions: Travel east from Carlsbad, NM on U.S. Highway 62/180 for approximately 42 miles; turn south .3 mile east of MM 78 at a cattle guard with a steel unlocked gate. Continue south for .2 mile to the start of the proposed access road on the east (left) The proposed access road will run northeast for approximately 1100 feet to the southwest corner of the proposed location..

2. PLANNED ACCESS ROAD:

- A. Length and Width: The proposed of access road will be constructed to a width of 12 feet and will be approximately 1100 feet in length. The proposed access road is color coded red on Exhibit "A".
- B. Construction: The proposed access road will be constructed by grading and topping with compacted caliche and will be properly drained.
- C. Turnouts: None required.
- D. Culverts: None required.
- E. Cuts and Fills: Will require filling and compacting of 2 to 4 foot deflation basins and sand dunes.
- F. Gates, Cattle guards: None required.
- G. Off Lease R/W: None required on proposed or existing access roads.

3. LOCATION OF EXISTING WELLS:

A.. Existing wells within a two mile radius are shown on Exhibit "C".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES;

- A. There are oil production facilities on the lease at this time.
- B. If the well proves to be commercial, the necessary production facilities, gas production-process equipment will be installed on the drilling pad. A 2" SDR poly pipe surface flow line will run parallel to the proposed and existing access road to the Pearl 33 Fed., Well No. 1 tank battery, 480' FSL & 2310' FWL, Sec. 33-T19S-R34E.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is planned to drill the proposed well with fresh water that will be obtained from private or commercial sources and will be transported over the existing access roads.

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche for surfacing the proposed access road and well site pad will be obtained from an approved Federal pit in the SW¼SW¼ of Section 26-T19S-R34E. No surface materials will be disturbed except those necessary for actual grading and leveling of the drill site and access road.

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 its are dry.
- C. All pits will be fenced with normal fencing materials to prevent livestock and wildlife from entering the area.
- D. Water produced during operations will be collected in tanks until hauled to an approved disposal system, or a separate disposal application will be submitted to the BLM for approval.
- E. Oil produced during operations will be stored in tanks until sold.
- F. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- G. Trash, waste paper, garbage and junk will be contained in trash bins to prevent scattering and will be removed for deposit in an approved sanitary land fill within 30 days after finishing of drilling and/or completion operations.

8. ANCILLARY FACILITIES:

A. None required.

9. WELL SITE LAYOUT:

- A. Exhibit "D" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area has been staked and flagged, 400' X 400'.
- B. Mat Size: 245' X 180', plus 100' X 75' reserve pits. The pits will be on the north.
- C. Cut & Fill: There will be a 1 foot cut on the north with fill to the south.
- D. The surface will be topped with compacted caliche and the reserve pits will be plastic lined.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in an aesthetically pleasing a condition as possible
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled as soon as they are dry enough to work after abandonment.

11. OTHER INFORMATION:

- A. Topography: The proposed well site and access road is located in an area of sand dunes and deflation basins which is part of the Querecho Plains. The location has a southwesterly slope of .7% from an elevation of 3664' with an undulating surface of 2' to 4' sand dunes and basins.
- B. Soil: The topsoil at the well site is a light yellowish-brown fine sand of the Pyote and Dune Land Series.
- C. Flora and Fauna: The vegetation cover is a fair grass cover of three-awn, sand and spike dropseed, grama, bristle grass, blue stem and other miscellaneous native grasses along with plants of mesquite, yucca, shinnery oak brush, sage, sunflowers, broomweed, cacti and miscellaneous weeds and wildflowers. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
- D. Ponds and Streams: None in area.
- E. Residences and Other Structures: There is a ATT buried cable 500' feet north of the location and oil production facilities in the vicinity.
- F. Land Use: Cattle grazing.

Read & Stevens, Inc. Pearl 33 Federal, Well No. 2 Page 4

11. OTHER INFORMATION:

cont.....

- G.. Surface Ownership: The proposed well site and access road are on Federal surface.
- H. There is no evidence of archaeological, historical or cultural sites on the proposed 400' X 400 site and access road. An archaeological survey has been conducted by Archaeological Survey Consultants, P. O. Box D, Roswell, NM 88202, and their report will be submitted to the appropriate government agencies.

12. OPERATOR'S REPRESENTATIVE:

A. The field representative responsible for assuring compliance with the approved surface use and operations plan is as follows:

John Maxey Read & Stevens, Inc. P.O. Box 1518 Roswell, NM 88202

Roswell Office Phone: (505) 622-3770

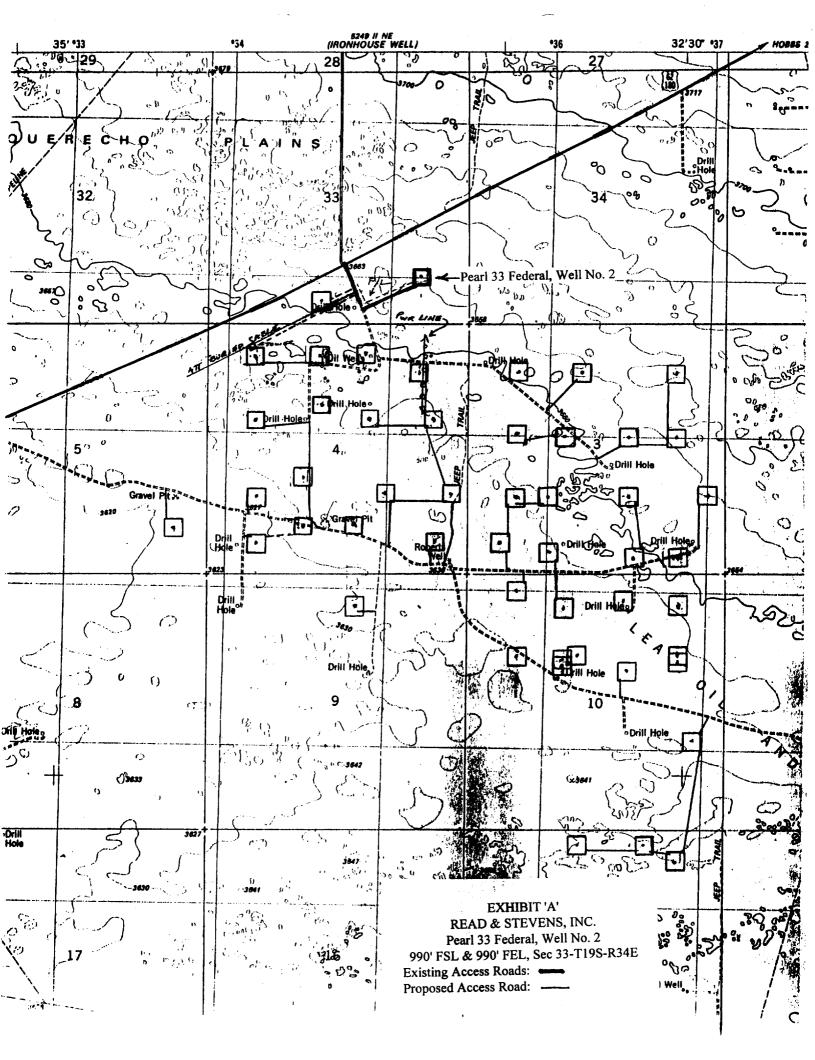
13. CERTIFICATION:

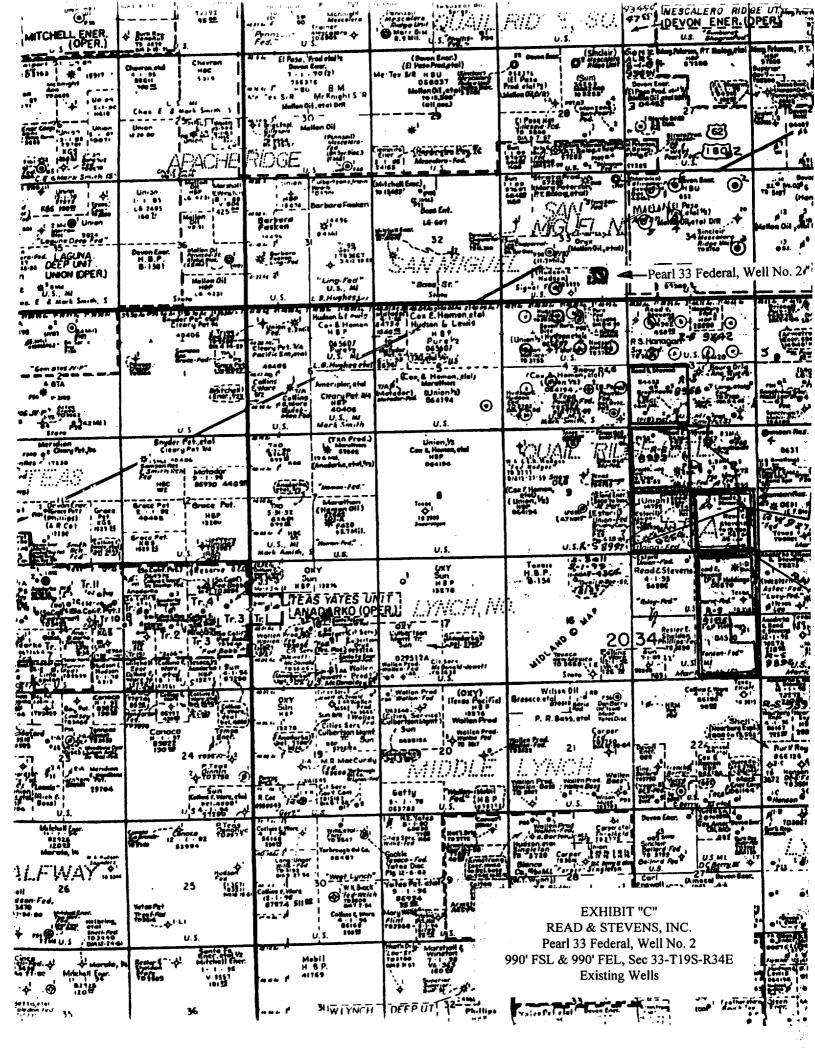
I hereby certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Read & Stevens, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

July 10 1998

George R. Smith

Agent for: Read & Stevens, Inc.







DRILLING CO., INC. - DIL WELL DRILLING CONTRACTORS

P. O. BOX 1498 ROBWELL, NEW MEXICO 88202-1498 808/622-8070 808/746-2719 ROBWELL, NM ARTESIA, NM

RIG # I

BLOWOUT PREVENTOR ARRANGEMENT

II" SHAFFER TYPE LWS, 5000 psi WP
II" GK HYDRIL, 5000 psi WP
80 GALLON, 4 STATION PAYNE ACCUMULATOR
3000 psi WP CHOKE MANIFOLD

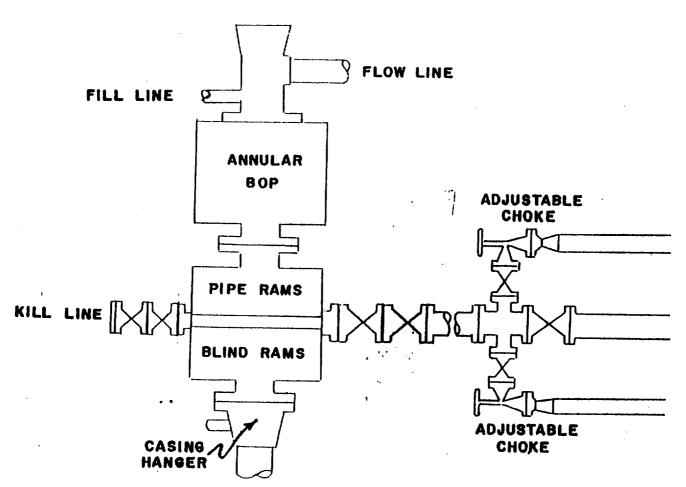


EXHIBIT "E"
READ & STEVENS, INC.
Pearl 33 Federal, Well No. 2
BOP Specifications

EXHIBIT "F"

READ & STEVENS, INC.

H₂S DRILLING OPERATIONS PLAN

For: Pearl 33 Federal, Well No. 2 990' FSL & 990' FEL, Sec. 33-T19-R34E

I. HYDROGEN SULFIDE TRAINING

All key personnel whether regularly assigned, contracted or employed on an unscheduled basis will receive or represent that they have received training in accordance with the general training requirements outlined in the API RP49 for safe drilling of wells containing hydrogen sulfide, Section 2.

In addition, supervisory personnel will be trained in the following areas:

- 1. The corrective action and shut-in procedures when drilling or reworking a well, and blowout prevention in well control procedures.
- 2. The contents and requirements of the H₂S drilling operations plan.

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' above the first zone containing or reasonably expected to contain 100 ppm or more hydrogen sulfide.

1. Well Control Equipment:

- a. Flare line with a continuous pilot.
- b. Choke manifold with a minimum of one choke.
- c Blind rams and pipe rams to accommodate all drill pipe sizes with a properly sized closing
- d. Auxiliary equipment to include and annular preventer and a rotating head.

2. Protective Equipment:

- a. Proper protective breathing apparatus shall be readily accessible to all essential personnel on the drill site
- 3. H₂S and Monitoring Equipment:
 - a. Three portable H₂S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens.

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.

Read & Stevens, Inc. Pearl 33 Federal, Well No. 2 Page 2

5. Mud Program:

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

6. Communications:

- a. Radio communications are available in company vehicles and at the rig site.
- b. Land line "telephone" communications at field office.

7. Well Testing:

a. Drillstem testing will be performed with a minimum number of personnel in the immediate vicinity which are necessary to safely and adequately conduct the test. When drillstem testing intervals known to or reasonably expected to contain 100 ppm or more H₂S, the drillstem test will be conducted during daylight hours and formation fluids will not be flowed to the surface.