P. C. SOX I SUBMIT IN TRIP

UNITED STATESHOUDS, NEW (DERIGOTURE)

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1005

DEPARIM	ENT OF THE	INTERIOR			
				5. LEASE DESIGNA	TION AND BERIAL NO.
BUREAU	OF LAND MAN	AGEMENT		NIM 0400	.
APPLICATION FOR	6. IF INDIAN, ALLOTTES OR TRIBE NAME				
1a. TYPE OF WORK	THE PROPERTY OF	DITIEL ON DELFEN		_	
DRILL X	DEEPEN			7. UNIT AGREEMEN	EMAN TI
WELL GAS WELL OTHE	R.	SINGLE MULT ZONE ZONE	IPLE	8. FARM OR LEASE NAM	B, WBLL NO.
2. NAME OF OPERATOR					ederal #7
Read & Stevens, Inc.		505/622-	3770	9. API WELL NO.	
3. ADDRESS AND TELEPHONE NO.					
P. O. Box 1518		oswell, NM 88202		10. FIELD AND POO	-34485
4. LOCATION OF WELL (Report location clearly At surface	and in accordance w	rith any State requirements.*)		. 	
990' FNL & 990 At proposed prod. zone	, ter	1		NE Lea I 11. SEC., T., R., M., AND SURVEY OF	OR BLE.
Same	, ,			Sec 3-	T20S-R34E
14. DISTANCE IN MILES AND DIRECTION FROM	NEAREST TOWN OR PO	ST OFFICE.		12. COUNTY OR PAR	
30 miles SW of Hobbs	, NM			Lea	New Mexic
15. DISTANCE FROM PROPOSED® LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)	330′	16. NO. OF ACRES IN LEASE 282.45	17. NO. TO T	OF ACRES ASSIGNED HIS WELL	40
 DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 	1320′	19. PROPOSED DEPTH	20. ROTA	RY OR CABLE TOOLS	
21. ELEVATIONS (Show whether DF, RT, GR, etc.	.)	8,400′	-!	Rotary 22. APPROX. DATE	WORK WILL START
36 73′ GL				22 ערווד.	100Ω

23. PROPOSED CASING AND CEMENTING AGARMAN CONTROLLED WATER BASH SECRETARY'S POTASH

SIZE OF HOLE	ORADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT		
17 1/2"	13 3/8"J-55	54.5# LTC	1600′	Circ 1000 C' + 200 "C"		
11"	8 5/8"S-80	32.0# LTC	5000′	Circ 1100 31 2 See Note		
7 7/8"	5 1/2"N-80	17.0# LTC	8400′	Tieback w/500 or 975 sx*		

Mud Program: Mud Wt. Vis. W/L Control 0' - 1600': Fresh water native mud: 8.4 ppg 32 No W/L control 1600' - 5000': Brine mud: 10.0 ppg 28-32 No W/L control 5000' - 8400': Fresh water mud w/starch: 8.8 ppg 32-40 W/L control 15 cc

BOP Program:

A 11" 5000 psi wp Shaffer Type LWS BOP, with a 5000 psi wp 11" GK Hydril, will be installed on the 13 3/8" casing. Casing and BOP will be tested before drilling out with 11". BOP will be tested daily as 3000 psi wp system.

* NOTE: If severe lost circulation is not encountered, hole will be reduced at 5000' to 7 7/8" and drill ahead WITHOUT setting the 8 5/8" casing.

** 8 5/8": Cement with DV tool in two stages starting at 3800":

1st stage: Lead 200 sx lite, tail in w/200 sx "C".

2nd stage: Lead 500 sx lite cement, tail w/200 sx "C". Cement to surface.

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or

810 NED Devis get Amith TITLE_	Agent for: Read & Stevens, In	IC. DATE July 6, 1998
(This space for Federal or State office use)		OPER OGRID NO. 18917
PERMIT NO.	APPROVAL DATE	1 109 HTY NO. [6990]
Application approval does not warrant or certify that the applicant holds legal or equitable CONDITIONS OF APPROVAL, IF ANY:	e title to those rights in the subject lease which	OA CODE 375 84
APPROVED BY Frank Splendatic TITLE A	ting STATE DIRECTOR	

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

supervison, and that the same is true and correct to the best of my belief.

Date Surveyed Signature & Seal & Signature & Seal & Signature & Seal & Signature & Seal & Signature &

3239 12641 12185

Certain No. RONALD & EDSON.

State Lease - 4 Copies Fee Lease - 3 Copies

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

DIOMOTOR IN

DISTRICT III 1000 Rio Brazos Rd., Astec, NM 67410

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

DISTRICT IV 2.0. Box 2068, Sand	a Fe, NM 87	504-2088						□ AMENDEI	D REPOR
			WELL LO	CATION	AND ACREA	AGE DEDICATI	ON PLAT		
	API Number Pool Code Pool Name 025-3448-5 37584 NE Lea Delaware								
Property (<u>つ 〜) ゲ</u> Code	483	1 3/3	507	Property Naz			Well Number	
1699C)				QUAIL FEDEI	RAL		7	
0GRID N	s. 7			REA	Operator Nam ND & STEVE			Elevation 3673	
					Surface Loc	ation			
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Α	3	20 S	34 E		990	NORTH	990	EAST	LEA
			Bottom	Hole Loc	cation If Diffe	erent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Pedicated Acres けの・ゆう NO ALLO		VILL BE A		го тніs		UNTIL ALL INTEI APPROVED BY		EEN CONSOLID.	ATED
	+				3670.7 3670.5 NM-84902 Read & S	3673.1' 3673.1' 990' 	I hereb contained herei best of my know Signature George R Printed Nam Read & STitle July 6, Date	teven s	ent fo
					1		I hereby certify	y that the well locat as plotted from field made by me or	ion shown i notes oj

APPLICATION FOR DRILLING READ & STEVENS, INC.

Quail Federal, Well No. 7

990' FNL & 990' FEL, Sec. 3-T20S-R34E

Lease No.: NM-84902 (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	1,600'	7 Rivers	4,280'
Top of Salt	1,720'	Delaware	5.240'
Base of Salt	3,180'	Bone Spring	8,200'
Yates	3,206'	T.D.	8,400'

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 5500'.

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

T.D. to 5000':

G/R, CNL-FDC, DLL, MSFL

T.D. 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 = 3300 psi (evac. hole) with temperature of 140°.
- 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: July 22, 1998.
 Anticipated completion of drilling operations: Approx. 3 weeks.

MULTI POINT SURFACE USE AND OPERATIONS PLAN

READ & STEVENS, INC.

Quail Federal, Well No. 7
990' FNL & 990' FEL, Sec. 3-T20S-R34E
Lea County, New Mexico
Lease No.: NM-84902
(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 1.7 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 .4 mile, then turn east and then southeast for 1 mile; turn east (left) for .3 mile to the Quail Federal, Well No. 6 well pad. The start of the proposed access road is on the northwest corner of this well pad and will run north for approximately 1000 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 1000 feet in length. The proposed access road is color coded red on Exhibit "B".
- 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 leveling of 2 to 3 foot sand dunes and deflation basins.
- F. Gates, Cattle guards: None required.
- G. Off Lease R/W: The existing off lease R/W No. NM-70565, as amended, will cover the off lease portion of the existing access road on Federal surface back to US Highway 62/180. See Exhibit "B".

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, with a 2" SDR 11 poly pipe surface flow line will run parallel to the proposed and existing access road to the Quail Fed., Well No. 1 pad 2310' FNL & 1980' FEL Sec. 3-T20S-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 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: 180' X 245', plus 75' X 100 reserve pits. The pits will be on the north.
- C. Cut & Fill: There will be a .5 foot cut on the east with fill to the west and southwest.
- 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 and screened 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 slight southwesterly slope of .5% from an elevation of 3673'.
- B. Soil: The topsoil at the well site is a light yellowish-brown fine to course sand of the Pyote soils 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: None in the immediate area, except oil production facilities.
- F. Land Use: Cattle grazing.

Read & Stevens, Inc. Quail Federal, Well No. 7 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

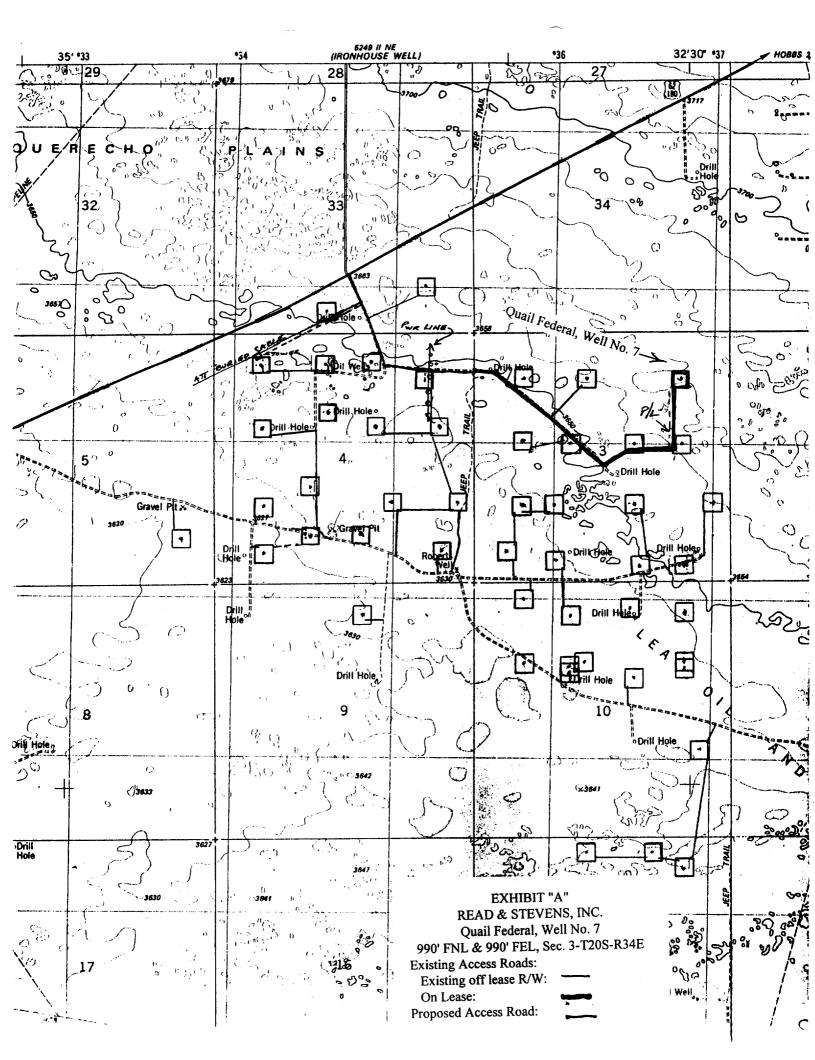
13. CERTIFICATION:

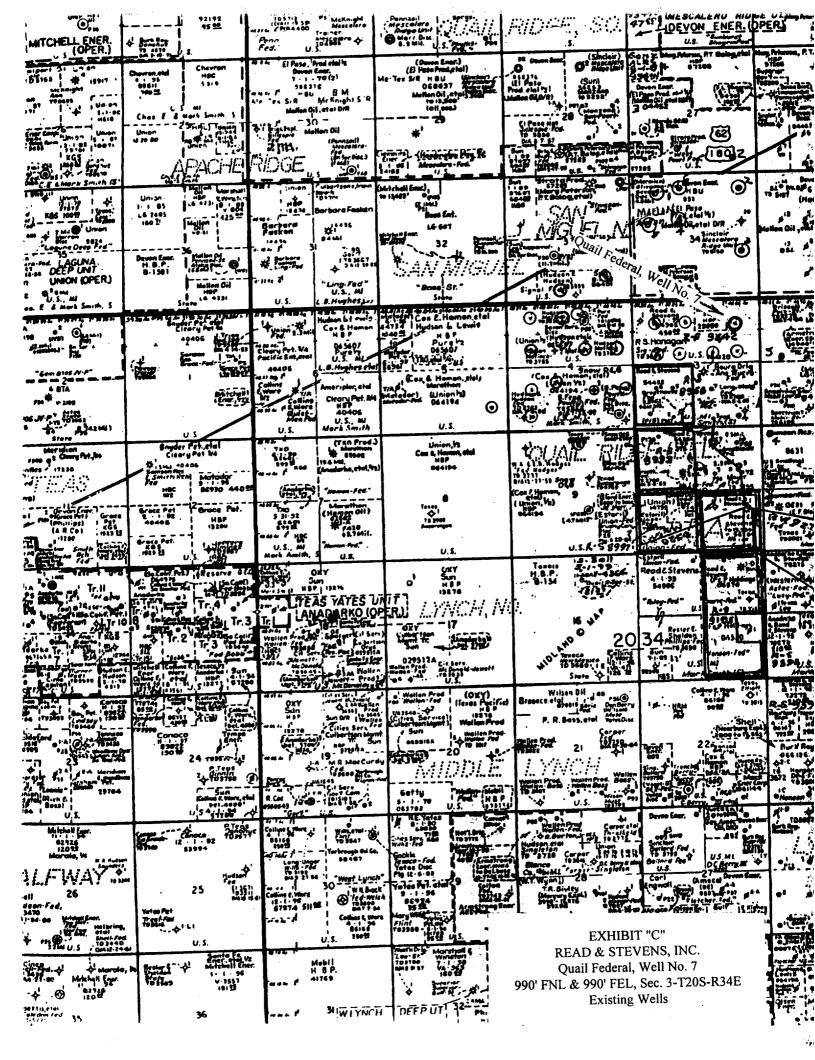
I hereby certify that I have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will 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 6 1998

George R Smith

Agent for: Read & Stevens, Inc.







DRILLING CO., INC. - DIL WELL DRILLING CONTRACTORS

P. D. BOX 1498 ROSWELL, NEW MEXICO 88202-1498 805/623-5070 505/746-2719 ROSWELL, NM ARTESIA, NM

RIG # 1

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

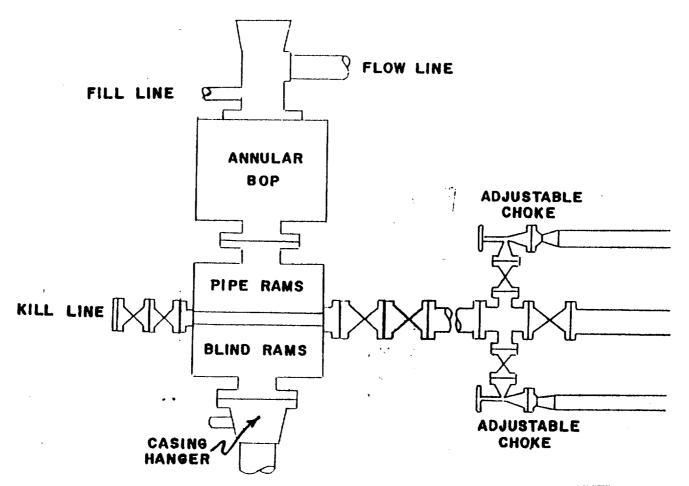


EXHIBIT "E"
READ & STEVENS, INC.
Quail Federal, Well No. 7
BOP Specifications

EXHIBIT "F"

READ & STEVENS, INC.

H₂S DRILLING OPERATIONS PLAN

For

Quail Federal, Well No. 7 990' FNL & 990' FEL, Sec. 3-T20-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 unit.
- 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. Quail Federal, Well No. 7 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.