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

5: LEASE DESIGNATION AND BERIAL NO.

Form 3160-3 (July 1992)

SUBMIT IN TRIPLICATES (Constitutions on reverse side) UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT						NM 61349		
APPLICATION FOR PERMIT TO DRILL OR DEEPEN						6. IF INDIAN, ALLOTTER OR TRIBE NAME		
DRILL DEEPEN D					7. UNIT AGREEMENT NAME			
WELL W	ELL OTHER			ONE X ZONE	TIPLE	8. FARM OR LEASE NAME, WELL NO		
2. NAME OF OPERATOR	- T V					Quahada Ridge 31 Fed. #5		
Collins & War	e, inc.			TAN 2 7 1944		30-015-27 806		
	te. 2200, Midla	nd, TX 7970)1	(3)		10. FIELD AND POOL, OR WILDCAT		
						Herradura Bend, East Del		
2310' FS	L & 1650' FWL					11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA		
At proposed prod. zon	, same as above				UT. K	V Soc 31 T225 D20F		
4. DIRTANCE IN MILES .	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFIC	······································	V(1, 1C-	K,Sec. 31, T22S, R29E		
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15. DISTANCE FROM PROPO LOCATION TO NEAREST	8ED*		16. N	O. OF ACRES IN LEASE		OF ACRES ASSIGNED		
PROPERTY OR LEASE I	INE, FT.	650	32	0		40		
S. DISTANCE FROM PROP TO NEAREST WELL, D	OSED LOCATION®		19. PROPOSED DEPTH 20. ROT			CARY OR CABLE TOOLS		
OR APPLIED FOR, ON TH	IS LEASE, FT.	1300'	6	600	Rotar			
21. ELEVATIONS (Show who						22. APPROX. DATE WORK WILL START*		
3.	313 7 ' GL					Upon approval		
	<i></i>	PROPOSED CASI	NG AN	D CEMENTING PROGE	RAM 🐎	vi de de la companya		
SIZE OF ROLE	GRADE SIZE OF CASING	WEIGHT PER F	00T	SETTING DEPTH	_	QUANTITY OF CEMENT		
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7 7/8"	8 5/8" j55 5 1/2" J55	24&32 15.5		2700 6600	- r-00	sx./surf.		
, ,,,	7 172 077	15.5		10000		sx See stips.		
Operator propos	ses to drill to	the Delawa	re f	ormation to te	st for	possible commercial		
production of o	oil. If product:	ive a 5.5"	prod	uction string	of casi	ng will be run to TD.		
If non-product:	ive, the well ${f w}$	ill be P&A'	d in	a manner cons	sistent	with Federal and State		
regulations and	d according to	good engine	erin	g practice. Sp	ecific	programs according to		
	Gas Order #1 are			he following a	ttachme	nts:		
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2.Drilling prog	gram 30P and Choke Ma	ani fold		harre of fishied	i EO	d O toto IN		
	and Operating P				1200 211 (Posted IDI. NO		
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	Planned Access	Roads				1-28-94		
	one Mile Radius		se B	oundaries				
Exhibit 3A -		-				•		
	rilling Rig La	yout				:		
Exhibit 5 - H	Production Faci	lities (pro	pose	d)				
	E PROPOSED PROGRAM: If yent data on subsurface location					ed new productive zone. If proposal is to drill or		
1.	<u></u>				program			
SIGNED WALL	Max Gueri	ry	Re	gulatory Mgr.		DATE 10-29-93		
	al or State office use)							
	, Z., Z.,							
PERMIT NO.				APPROVAL DATE				
Application approval does n	ot warrant or certify that the app	olicant holds legal or e	quitable ti	itle to those rights in the subje	ect lease which v	would entitle the applicant to conduct operations there		

*See Instructions On Reverse Side

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator				Lease			Well No.
Collins	and Ware	Inc.		Quahada R	idge "31" Fe	ed.	5
Jnit Letter	Section	Township	· -	Range		County	
K	31	22 Sc	outh	29 East	NMPM	Edo	дy
ctual Footage Loc	ation of Well:	1		I	TAIKIAI	L	
2310	feet from the SO	uth	line and	1650	feet from t	the West	line
round level Elev.	Producin	g Formation	mic and	Pool	Text Holli		Dedicated Acreage:
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			ov colored per	cil or hachure marks on th	e plat below.		10
2. If mor	e than one lease is dec	licated to the well, ou	aline each and	identify the ownership the	reof (both as to working		
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lf answer				actually been consolidated	I. (Use reverse side of		
this form	if neccessary.						
No allow	vable will be assigned	to the well until all in	iterests have b	een consolidated (by comm	nunitization, unitization	i, forced-poolir	ig, or otherwise)
or unul a	non-standard unit, eli	minating such interes	ц пак весп ар	proved by the Division.			
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DRILLING PROGRAM

COLLINS & WARE, INC. QUAHADA RIDGE "31" FEDERAL # 5 2310' FSL & 1650' FWL, UNLTR K, Sec. 31, T22S, R29E EDDY COUNTY,NM

The following information is filed in accordance with Bureau Of Land Management Rules and Regulations:

1.SURFACE FORMATION: Quaternary

2.ESTIMATED TOPS OF GEOLOGIC MARKERS:

Delaware 2930' Cherry Canyon 3780' Bone Springs 6440'

3.ESTIMATED DEPTH TO FRESH WATER:

Possible fresh water 100'-300'

ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Delaware (below 2900')

No other formations are anticipated to give up commercial quantities of hydrocarbons.

The fresh water sands will be protected by setting 13 3/8" casing at 350'and circulating cement back to surface. First intermediate 8 5/8" casing will be set at 2700' and cement circulated back to surface. The 5 1/2" production string will be set at 6600' and cement circulated back to surface.

4.PROPOSED CASING AND CEMENTING PROGRAM:

Casing Interval Casing OD WT., Grade, Joint, Condition
Hole Size

17.5" 0-350' 13 3/8" 54.5#, J-55, ST&C, New & Used

11.0" 0-2700' 8.5/8" 2#, J-55, ST&C, New: 1600 2 2 4 4 ft; 1100 - 72 #/FT.

7.875" 0-6600' 5 1/2" 15.5#, J-55, LT&C, New

Cement:

13 3/8" Surface Csg.: Cemented with 475 sacks of Class "C" with 2% CaCl. Circulate cement.

8 5/8" First Intermediate: Cemented with 600 sacks of 50-50 Pozmix cement tailed in with 225 sacks of Class "C" with 2% CaCl. Cement to circulate.

5 1/2" Prod. Csg.: Cement 1st stage with 500 sacks of 50/50 POZ 'H' cement, w/ DV tool @ 4200' +-. Cement 2nd stage with 400 sacks of 50/50 POZ 'H'; tie back 500' into Intermediate.

Page 2- Drilling Program
Collins & Ware, Inc., Quahada Ridge 31 Fed. #5

5.PRESSURE CONTROL EQUIPMENT:

Blowout prevention equipment, while drilling below surface casing will be a 3000 psi working pressure BOP stack. The BOP sketch is shown as Exhibit 1.

6.CIRCULATING MEDIUM:

Surface to 350': Fresh water spud mud: viscosity 30 to 33 as required for hole cleaning, 8.5-8.8#/gal.

350' to 1650': Brine water with lost circulation material as required, 28-30 viscosity, pH 9-10, weight 9.5-10#/gal.

1650'to TD: Cut brine system circulating reserve pit. Weight 8.6-9#, ph 9-10, viscosity 28-32, with mud sweeps as required. Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the well site at all times.

7.AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- A. An upper kelly cock will be used.
- B. The drilling fluids system will be visually monitored at all times.
- C. A mud-logging unit will monitor drilling penetration rate and hydrocarbon shows from somewhere below the intermediate casing. (tentative)

8.TESTING, LOGGING, AND CORING PROGRAMS:

- A. No drill stem tests are planned.
- B. Compensated Neutron/LDT Log GR and Dual Laterolog w/ MSFL.

The Gamma Ray Log will be continued back to surface.

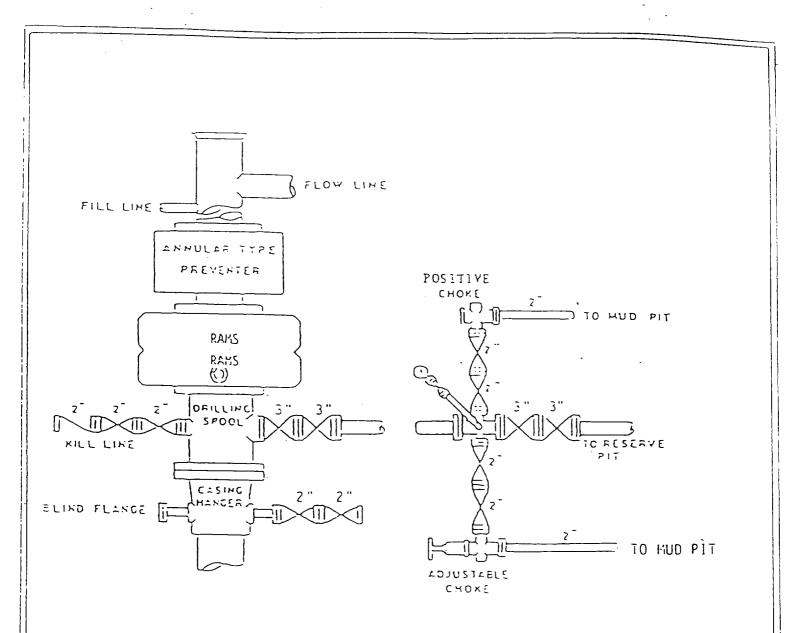
- C. Mud-logging unit will be used below 2700'.
- D. A set of sidewall cores is anticipated.
- E. Other testing procedures may be used after the production casing has been set depending on shows and other testing indicators.

9.ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES, & POTENTIAL HAZARDS:

No abnormal pressures or temperatures are anticipated. The estimated bottom-hole temperature (BHT) at TD is 90F and the estimated maximum bottom hole pressure (BHP) is about 1400 psi. No hydrogen sulphide (H2S) or other hazardous fluids are known to exist at this depth and area. No lost circulation zones are anticipated.

10.ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

It is planned that operations will commence shortly after approval of this application, with drilling and completion operations lasting about 30 days. A decision as to design and installation of permanent facilities will be made after adequate testing.



BOP STACK

3000 PSI WORKING PRESSURE

IN USE WHILE DRILLING BELOW

13 38: 8-5/8" CASING SEAT

Ad

SURFACE USE AND OPERATIONS PLAN FOR

COLLINS & WARE, INC. QUAHADA RIDGE "31" FEDERAL WELL NO. 5 2310' FSL & 1650' FWL, K, Sec. 31, T22S, R29E EDDY COUNTY NM

LOCATED: 11 miles SE of Carlsbad, NM.

FEDERAL LEASE NUMBER: NM-61349

ACRES IN LEASE: 320

TERM: HBP

LESSEE: Collins & Ware, Inc.

SURFACE OWNERSHIP: Federal

GRAZING PERMITEE: Henry Grandi

Box 898

Carlsbad, NM 88221 505-236-6401

POOL: Happy Valley (Delaware)

POOL RULES: SWR: 40 acre spacing for oil.

EXHIBITS: 2. Existing roads

2A. Planned access roads

- 3. One-Mile Radius Map showing lease boundary and wells
- 3A. Well Status
- 4. Drilling Rig Layout
- 5. Production Facilities Layout

Page 2 - Surface use and operations plan Collins & Ware, Quahada Ridge 31 Fed. # 5

1. EXISTING ROADS:

- A. Exhibit #2 is a portion of a map showing the location of the proposed well as staked.
- B. Exhibit #2A is a topo map showing existing pertinent roads in the vicinity of the proposed well site.

2. PLANNED ACCESS ROAD:

- A. Length and Width: The lease road to be constructed will be about 700' +- long and about 12' wide.
 - B. Surfacing Material: Caliche, watered, compacted and graded.
 - C. Maximum Grade: Less than one per cent (1%).
 - D. Turnouts: None necessary.
 - E. Drainage Design: Any new road will be crowned with drainage to the side.
 - F. Culverts: None needed.
 - G. Gates and Cattleguards: None will be necessary.
 - H. Cuts and Fills: Very little necessary.
- I. Existing access roads to the proposed wellsite will be used in their present state. Off-lease access approval will be executed under the Quahada Fed. # 1 location.

3. LOCATION OF EXISTING WELLS:

A. Existing wells within a one-mile radius are shown on Exhibit #3. There are no disposal, injection, and/or observation wells.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

A. Necessary production facilities for this proposed well is shown in Exhibit #5.

5. LOCATION AND TYPE OF WATER SUPPLY:

A. It is not planned that a water supply well will be drilled. Water necessary for drilling operations will be purchased from commercial water stations, and will be moved to the well site by truck.

6. SOURCE OF CONSTRUCTION MATERIALS:

A. Caliche needed for construction work will be taken from commercial sources located in the area.

7. METHODS OF HANDLING WASTE MATERIAL:

- A. Drill cuttings will be disposed of in the drilling pits.
- B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
- C. Water produced during tests will be disposed of in the drilling pits. After the well is permanently placed on production, produced water will be collected in fiberglass or steel tanks until hauled by transport to an approved disposal system.
 - D. Oil produced during tests will be stored in test tanks until sold.

- E. Trash, waste paper, garbage and junk will be stored in a covered, above-ground container. All waste material will be contained to prevent scattering by the wind. Location of the trash container is shown on Exhibit #4. No toxic waste or hazardous chemicals will be produced by this operation. The container will be emptied when full and taken to an authorized disposal facility.
- F. All trash and debris will be removed from the well site within 30 days after finishing drilling and/or completion operations. No adverse materials will be left on location. The unused portion of the well site will be leveled and restored to BLM specifications. Only that part of the pad required for production facilities will be kept in use. In the event of a dry hole, only a dry hole marker will remain.
- G. If required, a portable, chemical toilet will be provided on the location for human waste during the drilling and completion operations.
- 8. ANCILLARY FACILITIES:
- A. No airstrip, campsite, or other facilities will be built as a result of the operations of this well.

 9. WELL SITE LAYOUT:
- A. Exhibit #4 shows the relative location and dimensions of the well pad, mud pits, reserve pit, and the location and orientation of major drilling rig components. No permanent living facilities are planned, but a temporary foreman/toolpusher's trailer will be on location during the drilling and completion operations.
- B. Clearing and leveling of the well site will be required. Top soil, if available, will be stockpiled per BLM specifications as determined at the on-site inspection. No major cuts will be required.
 - C. The pad and pit area are staked and flagged.
- 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 from the well site. The location will also be levelled and cleaned of all trash and junk, to leave the well site in an as aesthetically pleasing condition as possible. Any part of the pad not needed for production facilities will have the top soil replaced and reseeded.
 - B. Unquarded pits containing fluids, if any, will be fenced.
- C. After abandonment, all equipment, trash, and junk will be removed and the well site will be cleaned. Any special rehabilitation requirements of the surface management agency will be complied with and accomplished as rapidly as possible.

11.OTHER INFORMATION:

- A. Topography The land surface in the area is fairly level.

 In the immediate area of the well site, land slope is gentle down to the east.
 - B. Soil Top soil at the well site is a loamy sand with some minor dune development.
- C. Flora and Fauna The vegetation cover is medium and includes mesquite, shinnery oak, sand sage, plains yucca, various weeds, and range grasses. Wildlife in the area is that typical of semi-arid desert land and includes coyotes, rabbits, rodents, reptiles, dove and quail.
 - D. Ponds and streams No lakes, ponds, or streams are in the area.
- E. Residences and other structures There are no occupied dwellings or other structures, other than oil field related equipment, within a mile of the proposed well site.
- F. Archaeological, historical, and cultural sites None observed. However, an archaeological reconnaissance will be done and a report furnished.
 - G. Land use Oil and gas production, grazing and wildlife habitat.
 - H. Surface ownership Federal with a grazing lease.

Page 4 - Surface use and operations plan Collins & Ware, Quahada Ridge 31Fed. # 5

12.OWNER'S REPRESENTATIVE:

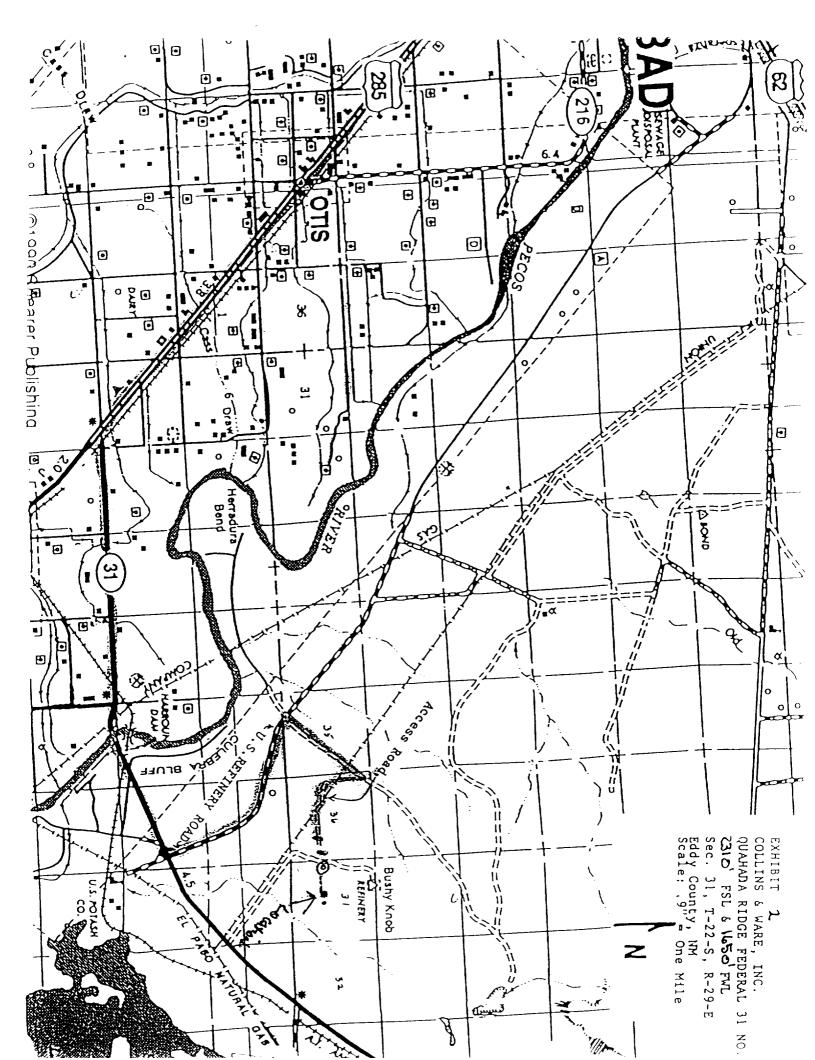
Max Guerry Collins & Ware, Inc. 303 W. Wall, Ste. 2200 Midland, TX 79701 Tel: 915-687-3435

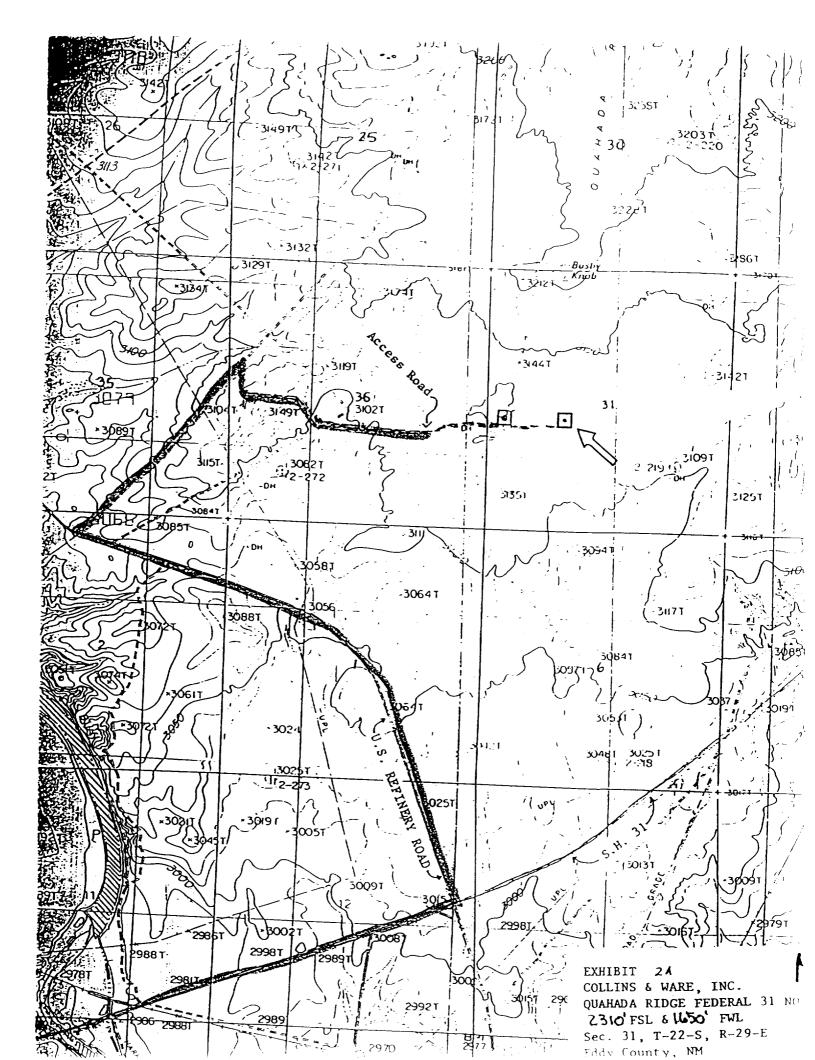
13.CERTIFICATION:

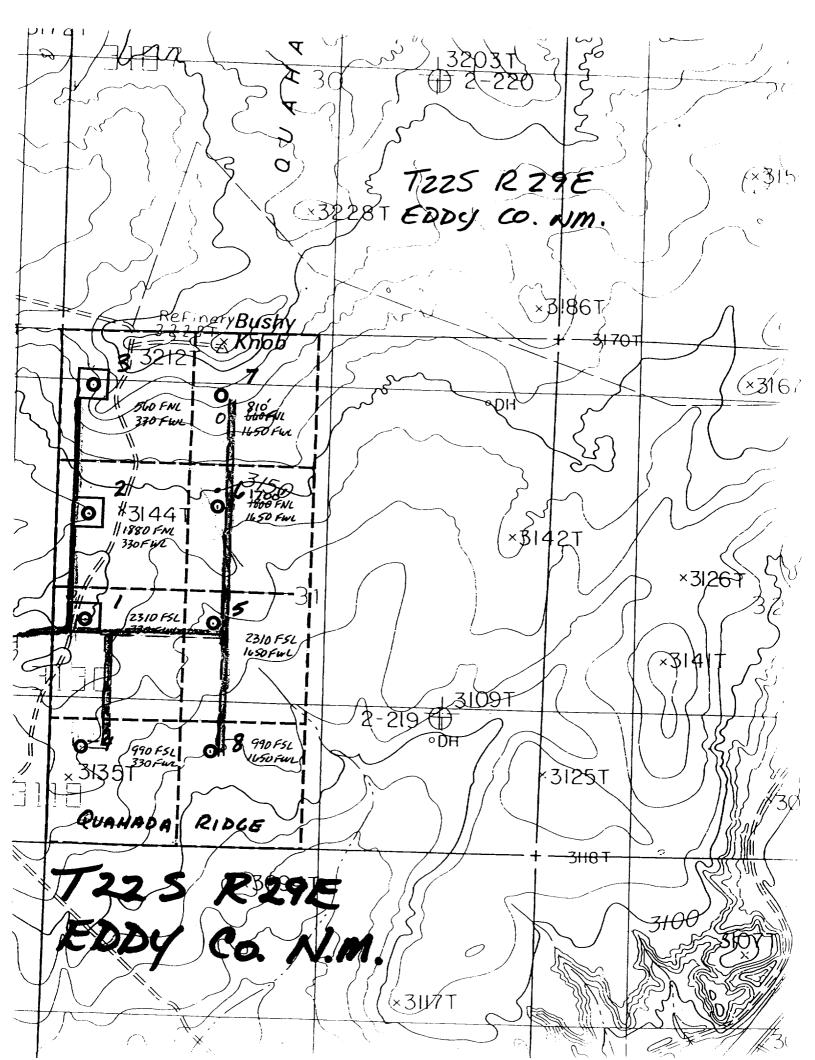
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Collins & Ware, 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 U. S. C. 1001 for the filing of a false statement.

Date: 10-29-93

Max Guerry Regulatory Manager







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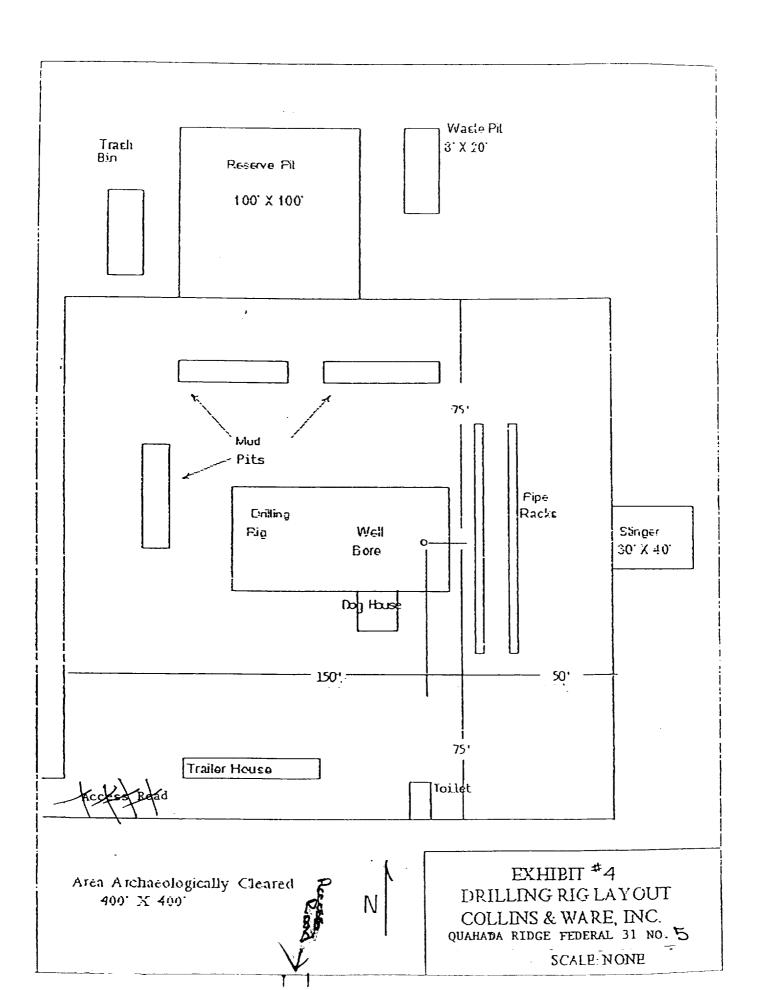
EXHIBIT NO. 3A

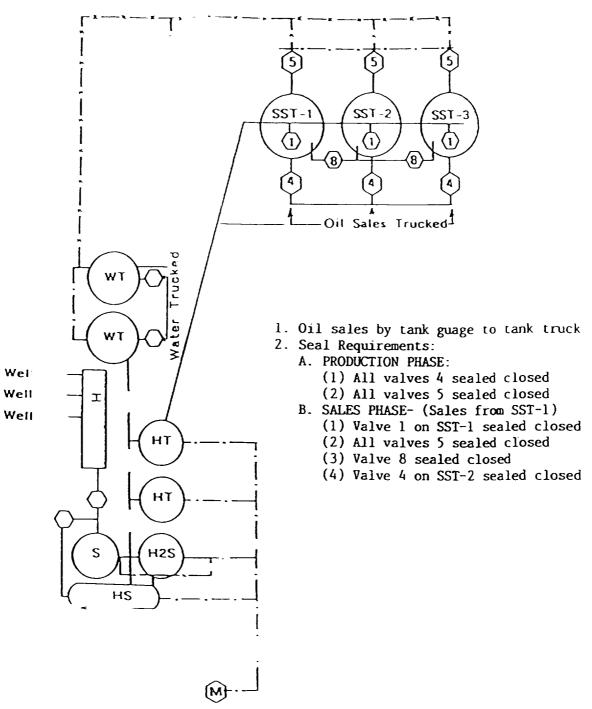
STATUS OF WELLS WITHIN ONE-MILE RADIUS
Collins & Ware Quahada Ridge Federal 31 No. 5 Well
Sec. 31, T22S, R29E, Eddy County, NM

7225, R28E

Sec 36

Fortson Pinnade St. # 4	1980'FN : 1650' FW	Herradura	BEND E.	Delnwere
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PRODUCTION SYSTEM Open
SITE FACILITY DIAGRAM Collins & Ware, Inc.

Edinbir 5

Collins & Ware, Inc. 303 W.Wall, Ste. 2200 Midland, TX 79701 915-687-3435 LOCATION OF SECURITY PLAN