CONDITIONS OF APPROVAL, IF ANY:

Lead See Annahile of 1077

I. H. OH. CONS. CARROLLY-

P. O. BOX (Other instructions reverse side)

UNITE STATES

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

	DEPARTMEN	IT OF THE	INITE	RIOR NEW MEXI	CO BARAG	Expires Februa	ry 28, 1995	
		LAND MANA			# # # # # # # # # # # # # # # # # # #	5. LEASE DSIGNATION		
ΔDDI I		LC 0316						
La TYPE OF WORK	ICATION FOR P	ERIVIII IO	DKIL	L OR DEEPEN	<u> </u>	on monni, Accorded	OR TRIBE IVAIVE	
DR b. TYPE OF WELL	ILL 🛛	DEEPEN				7 UNIT AGRREEMENT N	AME	
	AS /ELL OTHER			NGLE ZONE	TIPLE	8. FARM OR LEASE NAME WE	ELL NO	
2. NAME OF OPERATOR	Conoco Inc.					Warren Un	it B-T #3/	
a. ADDRESS AND TELEPHONE NO				 		9. API WELL NO 30-	025-343	
	Dr. Ste 430E, Midlan	d. Tx. 79705-4	450C			10. FIELD AND POOL, O		
4. LOCATION OF WELL At surface	L (Report location clearly a	and in accordance	with any	State requirements *)		Warren Blinebry-T		
1330' FSL & 1260' FEL At proposed prod. zone 1330' FSL & 1260' FEL 1330' FSL & 1260' FEL						11. SEC, T., R., M., OR I AND SURVEY OR AF Sec. 27, T20-5	BLK. REA	
14. DISTANCE IN MILES A	ND DIRECTION FROM NEA	EST TOWN OR PC	ST OFICE	E*		12 COUNTY OR PARISH	13. STATE	
	···		·			Lea	NM	
5. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE I (Also to nearest dri	r LINE, FT.		16 NO	OF ACRES IN LEASE	17. NO. OI TO TI	F ACRES ASSIGNED HIS WELL 40		
8 DISTANCE FROM PROPO TO NEAREST WELL, DI	RILLING, COMPLETED.		19. PR	DPOSED DEPTH	20. ROTAI	RY OR CABLE TOOLS		
OR APPLIED FOR, ON THE 21. ELEVATIONS (Show Who			<u> </u>	6850'		Rotary		
Eli Elevationo (orba Wil	emer br, Kr, GK, etc)	3544' GR				22. APPROX. DATE WO		
23			NIG / NIT	CEMENTING PROGR	437	3/31/9	78	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F			AM	QUANTITY OF CEMEN		
12-1/4"	M-50, 8-5/8"	23#		SETTING DEPTH		565 sxs, circ.		
7-7/8"	K-55, 5-1/2"	17#	6850'			1280 sxs, circ.		
 Well Location & A Proposed Well Pla Cementing Plan. Surface Use Plan. Trailer Mounted I BOP & Choke Mar H2S Drilling Opera Surface owner com This application includes the undersigned acception.	Rig Layout Drawing. nifold Specifications. ations Plan.	(C-102) along pad, electric lir conditions, stip	ne, acces	ss road and flowline. s and restrictions co	- -	rations conducted on	the leased land	
N ABOVE SPACE DESCR	RIBE PROPOSED PROGRA	M: If proposal is to do s and measured and	true vertica	al depths. Give blowout prev	e zone and propo venter program, if	osed new productive zone. If any.	proposal is to drill or	
SIGNED		10n_ 111		nn Johnson erty Analyst		DATE <u>3-/0</u>	7-98	
(This space for Fede	eral or State office use)							
PERMIT NO				APPROVAL DATE				
Application approval does n	ot warrant or certify that the app	licant holds legal or e	quitabi e title	e to those righs in the subjec	t lease which wou	uld entitle the applicant to con-	duct operations thereor	

*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 6 any matter within its jurisdiction.

m (F

District I PO Box 1980, Hobbe, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Axtec, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Netural Resources Department

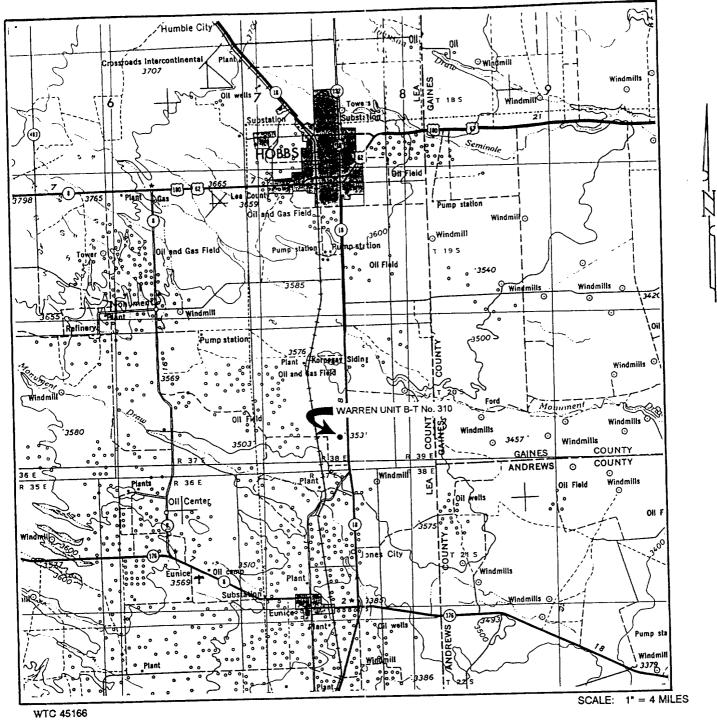
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies

AMENDED REPORT

Fee Lease - 3 Copies

	WELL LOCATION AND ACREAGE DEDICATION PLAT									
	I Number			Pool Co	1	Pool Name				
30-02	<u> 5-3</u>	4370	2 629	65 		Warren Blinebry-Tubb Oil & Gas				
*Property	Code					Property Name *Well Number REN UNIT B-T 310				
003127				*Operator				•	Elevation	
				CONOC				ì	3544'	
				1	Surface I				I	
UL or lot no.	7 A / G A V A /							East/We	st line	County
02 01 101 201	27	20-S	38-E		1330	SOUTH	1260	EA	ST	LEA
		11	Bottom	Hole	Location If	Different Fi	rom Surfac	e	L	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County
"Dedicated Acr	es ¹³ Joint	or Infill "	Consolidatio	n Code 10	Order No.					
40		I								NICOL ID A MED
NO ALLOW.	ABLE W	TLL BE A	ASSIGNEI) TO TH	IIS COMPLETI UNIT HAS F	ON UNTIL ALL SEEN APPROVE	INTERESTS D BY THE D	HAVE B	EEN CC	DNSOLIDATED
16		T T							GEDM	TELCA MICAL
							11			IFICATION contained herein is
							,,	-		imowiedge and belief.
									^	
								In 11	, Och	1112n
		 					Signature		I .	
							Jo Anr	Johnso	on	
							11	ty Anal	lyst	
				ŀ			Title	-		
							3/11/9 Date	98		
	-	_					¹⁸ SUR	VEYOR	CERT	TIFICATION
										shown on this plat surveys made by me
							or under my		and that the	same is true and
								FEBRUA		1008
				LAT	r.=32°32'25° NG.=103°07'55'		7.4			
			. <u></u>			1260*	Signature	and Seal	PL FO	TEL Strackor:
								AE CO	N ME	(()
								188	8278	/] je]
					; ;	1		割	poli	SURVEYOR
				ļ	•	†		(8)		(HIDS)
_							Certificate	Number	EGS10NA)	

VICINITY MAP



SEC.	27	TWP	20-S_	RGE	38-E
		N.M.P.M			
SURVE	' ——	14.141.1			
COUNT	Y	LEA		STATE	NM_
DESCR	PTION	1330' FSL	<u>& 1260</u>	' FEL	
ELEVAT	ION	3544'	_,		
OPERA	TOR _	CONOCO	INC.		
LEASE	WΔ	RREN UNIT E	8-T NO. 31	0	

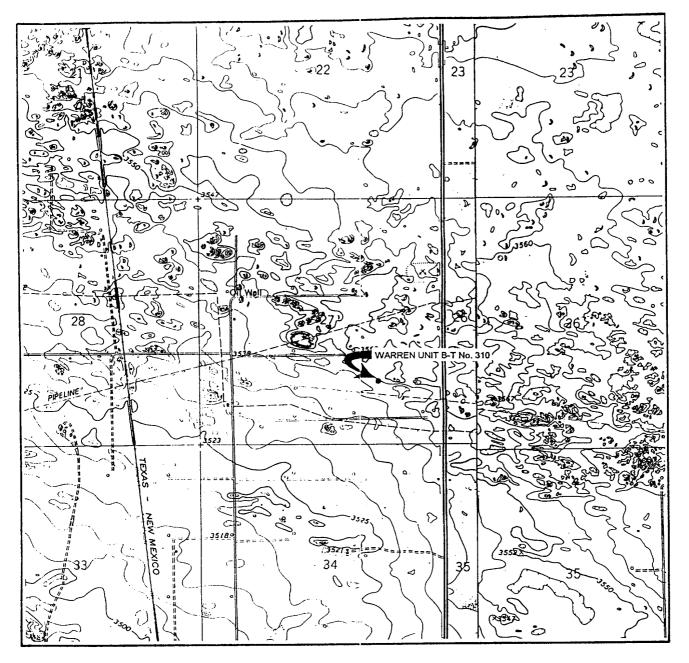
WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800

LOCATION VERIFICATION MAP



SCALE: 1" = 2000' WTC 45166

 SEC.
 27
 TWP.
 20-S
 RGE.
 38-E

 SURVEY
 N.M.P.M

 COUNTY
 LEA
 STATE
 NM

 DESCRIPTION
 1330' FSL & 1260' FEL

 ELEVATION
 3544'

 OPERATOR
 CONOCO INC.

 LEASE
 WARREN UNIT B-T NO. 310

 USGS TOPO MAP HOBBS SW, NEW MEXICO - HOBBS SE

CONTOUR INTERVAL 5'

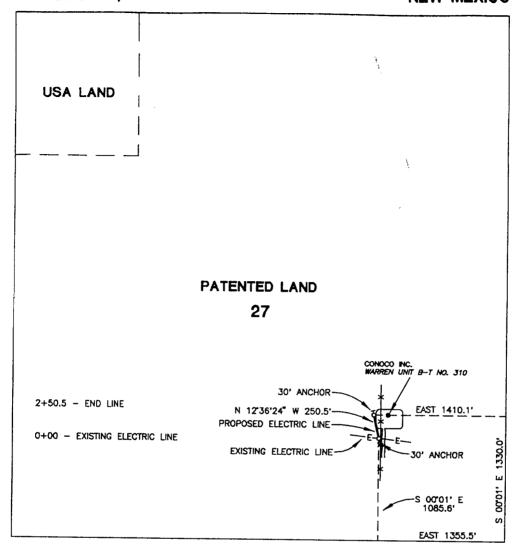
WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800

SECTION 27, TOWNSHIP 20 SOUTH, RANGE 38 EAST, N.M.P.M. LEA COUNTY. **NEW MEXICO**



CENTERLINE DESCRIPTION OF A PROPOSED ELECTRIC LINE:

BEGINNING at a point in an existing electric line, from which point an anchor easement bears S 12° 36' 24" E, 30.0 feet, also from said beginning point the southeast corner of Section 27, T-20-S, R-38-E, N.M.P.M., Lea County, New Mexico bears S 00° 01' E, 1085.6 feet and East 1355.5 feet;

THENCE N 12° 36' 24" W, with the centerline of proposed electric line, 250.5 feet to a point for the end of this line, from which point an anchor easement bears N 12° 36' 24" W, 30.0 feet and the southeast corner of said Section 27 bears East 1410.1 feet and S 00° 01' E, 1330.0 feet.

I hereby certify that this plat was prepared from an actual survey made on the ground and meets or exceeds all requirements for land surveys as specified by the state of New Mexico.

WARREN UNIT B-T WELL No. 310

CONOCO INC.

PROPOSED ELECTRIC LINE TO SERVE

250.5 feet of proposed electric line in Section 27, T-20-S, R-38-E, N.M.P.M., Lea County, New Mexico

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

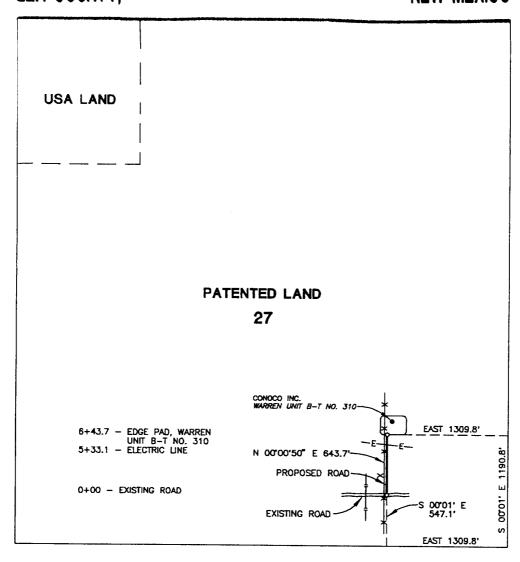
Survey Date: 2-5-98	Date: 3-4-98	Scale: 1" = 1000'
WTC No. 45166	Drawn By: R.S.	Sheet 1 of 1

EARL FOO N MEL and Tooto

Registered Professional Surveyor New Mexico Certificate No. 8278

POFESSIONAL

SECTION 27, TOWNSHIP 20 SOUTH, RANGE 38 EAST, N.M.P.M. LEA COUNTY, **NEW MEXICO**



CENTERLINE DESCRIPTION OF A PROPOSED ROAD:

BEGINNING at a point in an existing road, from which point the southeast corner of Section 27, T-20-S, R-38-E, N.M.P.M., Lea County, New Mexico, bears S 00° 01' E, 547.1 feet and East 1309.8 feet;

THENCE N 00° 00' 50" E, with the centerline of proposed road, 643.7 feet to a point in the south edge of well pad for Conoco Inc. WARREN UNIT B-T WELL No. 310, for the end of this line, from which point the southeast corner of Section 27 bears East 1309.8 feet and S 00° 01' E, 1190.8 feet.

survey made on the ground and meets or exceeds all requirements for land surveys as specified by the state of

EARL FOO;

8278

WARREN UNIT B-T WELL No. 310 CONOCO INC.

643.7 feet of proposed road in Section 27, T-20-S, R-38-E, N.M.P.M., Lea County, New Mexico

PROPOSED ROAD TO SERVE

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

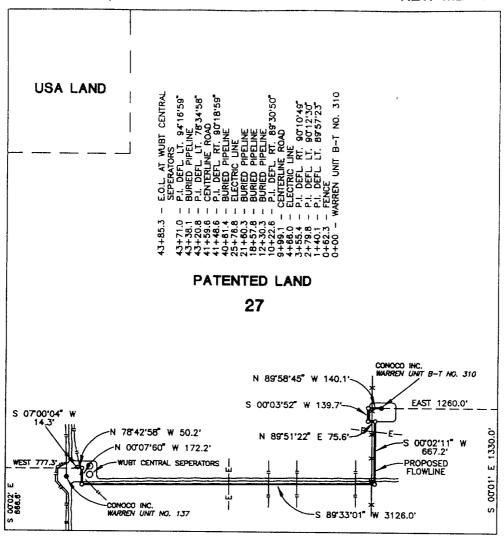
MIDLAND, TEXAS

Survey Date: 2-5-98	Date: 3-4-98	Scale: 1" = 1000'
WTC No. 45166	Drawn By: R.S.	Sheet 1 of 1

I hereby certify that this plat was prepared from an actual New Mexico.

PROFESSIONAL Earl Foote Registered Professional Surveyor New Mexico Certificate No. 8278

SECTION 27, TOWNSHIP 20 SOUTH, RANGE 38 EAST, N.M.P.M. LEA COUNTY, NEW MEXICO



CENTERLINE DESCRIPTION OF A PROPOSED FLOWLINE:

BEGINNING at Conoco Inc. WARREN UNIT B-T WELL No. 310, from which point the southeast corner of Section 27, T-20-S, R-38-E, N.M.P.M., Lea County, New Mexico bears East 1260.0 feet and S 00° 01' E, 1330.0 feet;

THENCE with the centerline of proposed flowline as follows: N 89° 58' 45" W, 140.1 feet; S 00° 03' 52" W, 139.7 feet; N 89° 51' 22" E, 75.6 feet; S 00° 02' 11" W, 667.2 feet; S 89° 33' 01" W, 3126.0 feet; N 00° 07' 60" W, 172.2 feet; N 78° 42' 58" W, 50.2 feet and S 07° 00' 04" W, 14.3 feet to a point at WUBT CENTRAL SEPARATORS, for the end of this line, from which point the southwest corner of said Section 27 bears West 777.3 feet and S 00° 02' E, 666.6 feet.

I hereby certify that this plat was prepared from an actual survey made on the ground and meets or exceeds all requirements for land surveys as specified by the state of

PROPOSED FLOWLINE TO SERVE WARREN UNIT B-T WELL No. 310

CONOCO INC.

4385.3 feet of proposed flowline in Section 27, T-20-S, R-38-E, N.M.P.M., Lea County, New Mexico

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

Survey Date: 2-5-98	Date: 3-4-98	Scale: 1" = 1000'
WTC No. 45166	Drawn By: R.S.	Sheet 1 of 1



Earl Foote
Registered Professional Surveyor
New Mexico Certificate No. 8278

PROPOSED WELL PLAN OUTLINE

GL = 3544'

WELL NAME Warren Unit No. 310

ALL DEPTHS ARE

LOCATION 1330' FSL & 1260' FEL \$27-T209-R38E 8ELOW GROUN							D LEVEL			
			DRILLING	FORMATION	HOLE	CASING	FRAC	FORMATION PRESSURE	MUD WEIGHT &	
מעד	MD	FORMATION	& COMMENTS	EVALUATION	HOLE SIZE 12-1/4"	PROGRAM	GRAD	GRADIENT	TYPE	DAYS
17	1)		Possible hole englargement		12-1/4"				Spud	
			and sloughing		j					
				,						
					İ					
1									1	
			:					Less than 3.3		
1500	1000							İ		
						8-5/8", 23#, M-50				}
1						ST&C @ 1400'				
		Rustler @ 1300' Top Salt @ 1400'	Washouts in Salt Section		7-7/8*	565 sx. Circulate Cement	 	-	10 ppg Brine	2
l		-								
	-				1					
3000	2000				j					
1.500	2000									
1								Less than 8.4		
		Base Salt @ 2600'			1					
		Yates @ 2796*	Possible Deviation					-		
					1					
3000	3000	7-Rivers @ 3057'			1					
				•						
	<u> </u>	i		H2S Monitor on at 3500'						
		Queen @ 3614' Penrose @ 3768'		H2S Monitor on at 3500' No Mud Log						
		1						1		
		Grayburg @ 3948					İ			
4000	400u					Mud up with Gel-Starch if	Į			
		San Andres @ 4213'	Possible losses and seepage to TD			necessary to control losses.			1	
		j								
ł										
		1								
		†					1			
5000	5000									7
3000	3000									ľ
		Glorieta @ 5475	Possible differential sticking through							
		1	Glorieta							
		<u> </u>			1					İ
	-	Blinebry @ 5940'				Top Tail Cement @ 5700				
6000	8000	1								
		1		-						
		Tubb Mkr @ 6437'								
		1							Starch/sait gei	16
				GR-CAL-CNL-FDC-MLL-DLL-PE		5-1/2", 17#, K-55, LT&C	†	<u> </u>		1
	 	Drink and @ 6741. TD @ 6850.		2750'-TD		@ 6850' 1280 sx. Circulate Cement				
7600	7000	1	}							
		i								
		1								1
1		1						1		
		†						}		
		1								
8000	8000	1								
		4								
		1								
ı	—	1								
L	$\Box \mathcal{A}$	1	<u> </u>	<u></u>		l		<u>t</u>	L	
	,,,	, , ,				-				

Tim Schnieder, Production Engineer 4-Mar-98

Joe Miller Reservoir Engineer

Mar-90

Well Name: Warren Unit #310

Location : 1330' FSL & 1260' FEL Sec 27, T-20S, R-38E, Lea County, New Mexico

Casing Program:

Surface 8.5/8" casing in 12.1/4" Hole at 1400 ft. Production 5 1/2" casing in 7 7/8" Hole at 6850 ft.

Cementing Program:

<u>Surface</u>

Lead	365	sacks	Class C			
Additives	35:65:6 (P	oz:Cem:Gel)	+ 2% CACL2			
	+ 0.25 pps	Cello-Flake				
Mixed at	12.7	_ppg	Yield	1.87	cuft/sk	
					_	
Tail	200	_ sacks	Class C			
Additives	2% A-7P		-			
Mixed at	14.8	ppq	Yield	1.34	cuft/sk	

Production

Tail	260	sacks	Class C				
Additives	1.1% FL-62	+ 1% BA	-58 + 3% Salt	+ 0.3%	CD-32		
+ 0.2% SMS							
Mixed at	14.8	ppg	Yield	1.37	cuft/sk		
ee Water	0	- %	Fluid Loss	45			

SURFACE USE PLAN Conoco Inc.

Warren Unit B-T #310

The following is required information concerning the possible effect which the drilling of this well may have on the environment, existing road sites, and surrounding acreage. A copy will be posted on the derrick floor so all contractors and sub-contractors will be aware of all items of this plan.

1. Existing Roads

- A. The proposed well site is 1330' FSL & 1260' FEL, Sec. 27, T20S, R38E, Lea County, New Mexico.
- B. Directions to the location are as follows:

South of Hobbs on Hwy. 18 to Mile Marker #39; turn west and travel 1 mile; turn south and travel ½ mile; turn east and travel ½ mile; then turn north for ¼ mile.

C. No improvement or maintenance is anticipated for the existing roads.

2. Planned Access Roads

- A. 643.7' of new access road will be required.
- B. Turnouts as required by surface managing agency.
- C. Culverts as required by surface managing agency.
- D. Gates, cattleguards, or fences as required by surface managing agency.

3. Topographic Map and Well Location

A 7.5" quadrangle topo map was filed with the NOS.

4. Additional Rights-of-Way

Electric line, access road and flowline as shown on attached plats.

5. Water Supply

Fresh and brine water will be obtained from Goldstar's Water Station located 1 mile north of Eunice, NM, and will be trucked to location by the same directions for reaching the drilling site.

6. Source of Construction Materials

Construction materials will be obtained from the SE/4 NE/4, Sec. 4, T21S, R37E, Lea County, NM.

7. <u>Methods of Handling Waste Disposal</u>

- A. The drill cuttings, fluids and completion fluids will be placed in the reserve pit. The reserve pit will be fenced on three sides away from the pad during drilling and the fourth side fenced as soon as the rig moves out. The reserve pit will be allowed to dry, and materials remaining in the reserve pit buried. The reserve pit will be backfilled, leveled and contoured so as to prevent any materials being carried into the watershed. Upon completion, the pad will be leveled, contoured, and reseeded with the appropriate seed mixture as specified by the surface managing agency.
- B. All garbage and trash will be hauled away to designated landfill by Conoco.
- C. Chemical toilets will be provided and maintained during drilling operations.

8. Ancillary Facilities

No ancillary facilities are planned.

9. Wellsite Layout

See attached Wellsite Layout. The V-door faces East. The reserve pit will be lined with plastic and the pad and pits are staked. All unguarded pits containing liquids will be fenced and any unguarded pit containing liquids will be fenced.

10. Plans for Restoration of Surface

Reserve pits will be rehabilitated once drilling fluids have been allowed to evaporate to the point the pits are dry enough for backfilling and leveling. In the event drilling fluids will not evaporate in a reasonable time period, the fluids will be removed and transported by tank truck to a state approved disposal facility. Backfilling and leveling of the location will be completed within a time period of one year upon cessation of drilling operations.

11. Surface Ownership

The surface ownership is Robert A. McCasland and Dallas McCasland.

12. Archeological Clearance

An archeological survey is being conducted and will be provided upon completion.

13. Operator's Representative and Certification

The person who can be contacted concerning compliance of this Surface Use Plan is:

Mike L. Mankin 10 Desta Drive, Suite 430E Midland, Texas 79705 (915) 686-5794 I hereby certify that I, or persons under my direct supervision, have inspected the proposed drilling site; 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 operations proposed herein will be performed by Conoco 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.

Mike L. Mankin Right-of-Way Agent

Mika L. Munking

3-11-98

Date

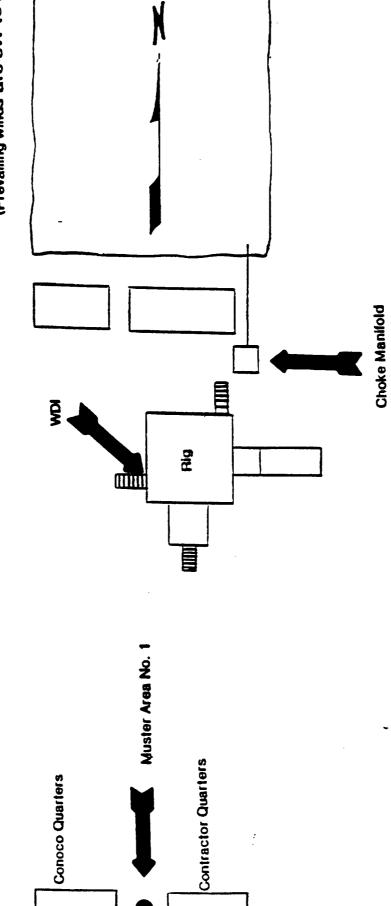


H2S Salety Contractor

Terrain is flat, and covered with native grasses

Two of the three WDI (wind direction indicator) locations will be utilized

(Prevailing winds are SW to NE)



Muster Area No. 2



TRAILER - MOUNTED RIG LAYOUT

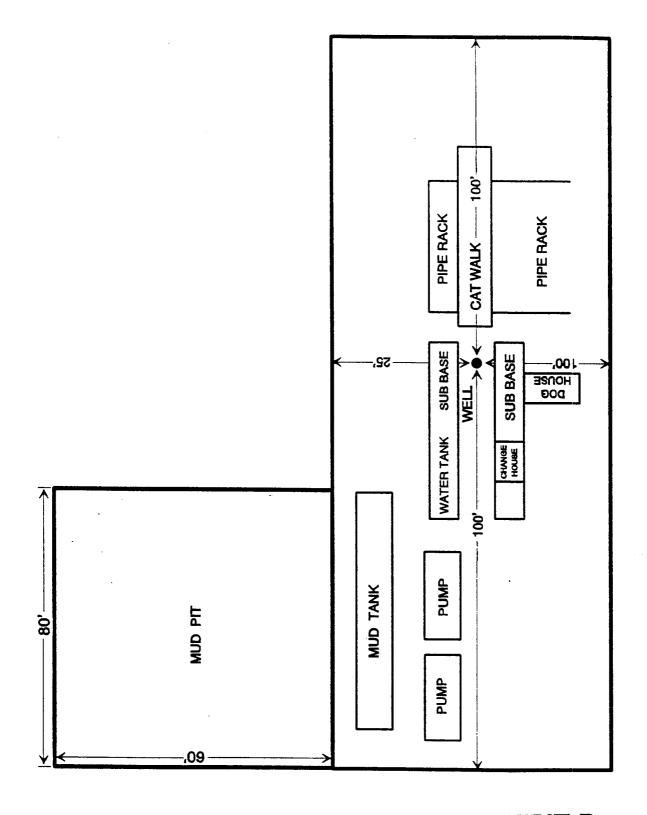
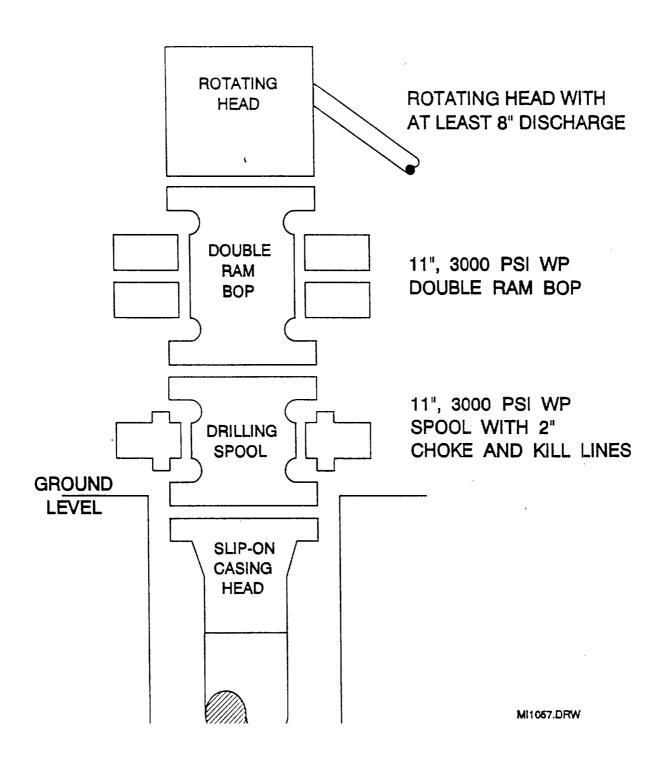
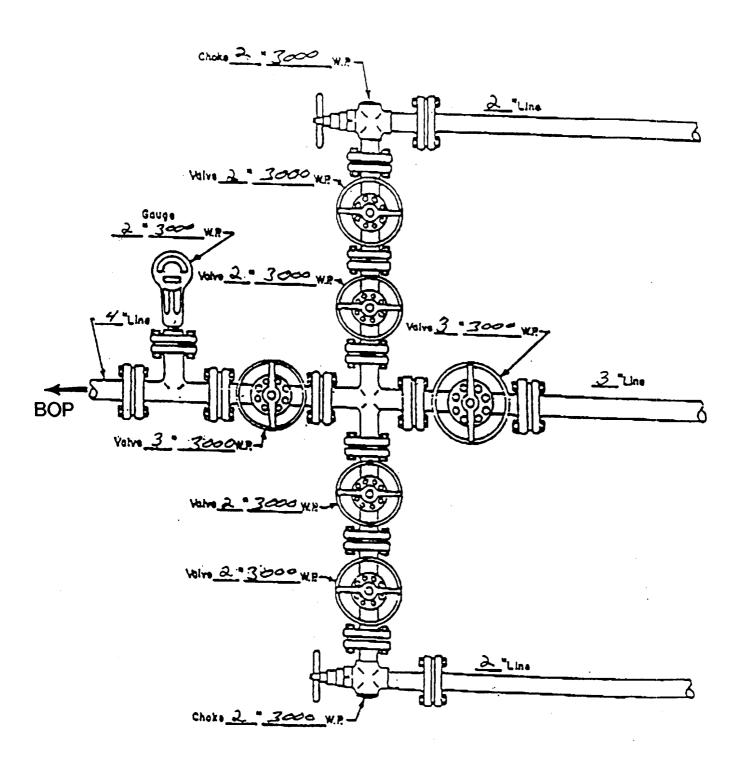


EXHIBIT D

BOP SPECIFICATIONS



CHOKE MANIFOLD DIAGRAM



MANIFOLD 3000 #WP



H2S DRILLING OPERATIONS PLAN

I. Hydrogen Sulfide Training

All contractors and subcontractors employed by Conoco will receive or have received training from a qualified instructor within the last twelve months in the following areas prior to commencing drilling operations on this well.

- 1. The hazards and characteristics of hydrogen sulfide (H2S)
- 2. Safety precautions
- 3. Operations of safety equipment and life support systems.

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

- 1. The effect of H2S on metal components in the system, especially high tensile strength tubulars are to be used.
- 2. Corrective action and shut-down procedures when drilling or reworking a well, blowout prevention and well control procedures, if the nature of work performed involves these items.
- 3. The contents and requirements of the contingency plan when such plan is required.

All personnel will be required to carry documentation of the above training on their person.

II. H2S EQUIPMENT AND SYSTEMS

1. Safety Equipment

The following safety equipment will be on location:

- A. Wind direction indicators as seen in attached diagram.
- B. Automatic H2S detection alarm equipment (both audio and visual).
- C. Clearly visible warning signs as seen on the attached diagram. Signs will use the words "POISON GAS" and "CAUTION" with a strong color contrast.
- D. Protective breathing equipment will be located in the dog house and at briefing areas as seen in the attached diagram.

2. Well Control Systems

A. Blowout Prevention Equipment

Equipment includes but is not limited to:

- a. pipe rams to accomodate all pipe sizes
- b. blind rams
- c. choke manifold
- d. closing unit
- e. flare line and means of ignition

B. Communication

The rig contractor will be required to have two-way communication capability. Conoco will have either land-line or mobile telephone capabilities.

C. Mud Program

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

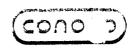
D. Drill Stem Tests

There are no drill stem tests proposed for this well.

III. WELL SITE DIAGRAM

A complete well site diagram including the following information is attached:

- 1. Rig orientation
- 2. Terrain
- 3. Briefing areas
- 4. Ingress and egress
- 5. Pits and flare lines
- 6. Caution and danger signs
- 7. Wind indicators and prevailing wind direction



Mike L. Mankin Right of Way Agent Right of Way and Claims

Conoco Inc. 10 Desta Drive, Suite 430E Midland, Texas 79705 (915) 686-5794

February 19, 1998

Bureau of Land Management 620 E. Greene Carlsbad, New Mexico 88221

Attn:

Mr. Barry Hunt, Surface Protection Specialist

Re:

Settlement for Well Location and Appurtenances

WARREN UNIT B-T, Well # 310

Section 27, T20S, R38E Lea County, New Mexico

Dear Mr. Hunt:

By this letter Conoco Inc. has made settlement , with surface owner, for the construction of the above referenced location and appurtenances..

If you have any questions, please contact me at 915-686-5794.

Sincerely,

Mike L. Mankin

