Form 3160-3 (July 1992)

I. H. W. STIS. WHILEFELDS P. C. SUBMIT IN PLICATE

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

UNITED STATES HOSES, Contentinstruction of the INTERIOR DEPARTMENT OF THE INTERIOR

5. LEASE DSIGNATION AND SERIAL NO

BUREAU OF LAND MANAGEMENT							LC 063458		
APPLICATION FOR PERMIT TO DRILL OR DEEPEN							6 IF INDIAN, ALLO	OTTEE OF	TRIBE NAME
1a. TYPE OF WORK						·	7.11117 1 600 600		
DR:	ırı 🛛	DEEPEN [7 UNIT AGREEM	ENTNAM	E
OIL G	AS OTHER		SINGLE ZONE	\boxtimes	M U L T I P L ZONE	E 🔲	8. FARM OR LEASE NA	ME WELL 1	√O
2. NAME OF OPERATOR	Conoco Inc.						Wai	rren Un	it
a. ADDRESS AND TELEPHONE NO		··				 -	9. API WELL NO		· · · · · · · · · · · · · · · · · · ·
	Dr. Ste 100W, Midlan	nd Tv 79705-4	500	(O 1 e	686-654	e jewanyey		145	
4 LOCATION OF WELL	L (Report location clearly as	nd in accordance w	ith any State	requirem) (0250-654) ents *)	5 / 3 / 3	10. FIELD AND PO		
At surface		660' FNL &		-	,			Tubb,	
At proposed prod. zon	e // ()				AR 1	0.07	11. SEC, T., R., M. AND SULVEY	OR AREA	. .
LA DISTINUE DI MAI DE	UnitU	660' FNL &		,			Sec. 25,	Γ-20S, I	R-38E
14. DISTANCE IN MILES A	ND DIRECTION FROM NEA	EST TOWN OR POS	r ofice*		P1. St.		12 COUNTY OR PA	RISH	3. STATE
5. DISTANCE FROM PROPO	OSED*		16 NO OF A	CREC IV	\$2000E		Lea		NM
LOCATION TO NEAREST PROPERTY OR LEASE I (Also to nearest drl	CLINE, FT.		10 NO OF A	CKESINI	LEASE	17. NO. C.F. TO TH	ACRES ASSIGNED IIS WELL		
8 DISTANCE FROM PROPO	g. unit line, if Any) OSED LOCATION*		19. PROPOSE	D DEPTH		20 BOTAB	40		
TO NEAREST WELL, DE OR APPLIED FOR, ON THE				6900'		20. KUTAK	LY OR CABLE TOOLS		
21. ELEVATIONS (Show Wh	ether DF, RT, GR, etc)			0900			Rotary 22. APPROX. DATE WORK WILL START*		
		3566' GR						5/15/97	
2 3	,	PROPOSED CASIN	G AND CEM	ENT	ARGERAN	TV C		FMAT	BASIN
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOO		SETTING D			QUANTITY OF	CEMENT	
12-1/4"	8-5/8"	#23 M-50		1500	0'		660 sxs, §		<u>:@</u> ?
7-7/8"	K-55 5-1/2"	#15.5 K-55	5	6900	0'		1,285 sxs,		n Gallace
									-
 Proposed Well Plat Surface Use Plan EXHIBIT A: Vinc EXHIBIT B: 7.5 " EXHIBIT C.1-C.2: EXHIBIT D: Trail BOP & Choke Mat H2S Drilling Operator Surface Owner Se An archeological s The undersigned acceptand or portion thereon ABOVE SPACE DESCRIPTION 	cinity and Lease Road M Quadrangle Topo Map Pipeline plats ler-mounted rig layout nifold Specifications ations Plan.	as soon as comp conditions, stipu d as covered by 1 M: If proposal is to dee	llations, and BLM Bond	d restrict File No	tions conce	3.0	312 8708 5/214 025-3	ed on th	
24.	uniN	· · · · · · · · · · · · · · · · · · ·	Jerry W.	Hoover					
(This cape for Ford	MHOOU	TITL	Sr. Conse	ervation	Coordinat	or	DATE	4/9	/97
	eral or State office use)								
PERMIT NO	not ungrant or actif, the state of	Bank hald- t '		OVAL DATE					
Application approval does r	not warrant or certify that the appl ., IF ANY:	iicant noids legal or equ	itable title to the	ose righs in	thc subject lea	ase which wou	ald entitle the applicant	to conduc	t operations thereo
APPROVED BY	fie. 50 - 20	- 1845, 1845 			WINERA	18	_ DATE	<u> </u>	<u> 22 </u>

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

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 21, 1994

Fee Lease - 3 Copies

AMENDED REPORT

		W	ELL L	OCATIO	N AND A	CREAGE DEDI	CATION PL	.AT		
3D-0	Number 25-3			Pool Co	od#	Warren -	3 Pool Ne			
*Property		- 1				ty Name			Well Number	
00312Z WARREN UNIT							145			
'OGRID						or Name			*Elevation	
0050	7.3				CONO	NOCO INC. 356				
				11	°Surface	Location				
UL or lot no.	Section	Township	Range	Let Idn	Feet from the		Feet from the	Eas:/West line	County	
D	25	20-S	38-E		660	NORTH	660	WEST	LEA	
		11	Bottom	1 Hole	Location 1	If Different F	rom Surfac	:e	- 	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
19	1 3									
Dedicated Acr	es 'Joint	or Infill 1+C	Consolidatio	n Code "O	Order No.				-1	
NO ALLOW	ABLE W	ILL BE A	SSIGNEI	HT OT C	IS COMPLET	TION UNTIL ALL	INTERESTS	HAVE BEEN C	ONSOLIDATED	
 		OR A N	ION-ST	ANDARD	UNIT HAS	BEEN APPROVE	D BY THE D	IVISION		
16		Ē					17 OPE	RATOR CER	rirication	
660		E					il .	ify that the information	_	
660,								plete to the best of my		
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		<u> </u>					Cbu	W///////	MM	
							Signytture	y VV NO		
							Frinted Nam	DERRY W. HO	OVER	
							11	™ NSERVATION C	:OORDINATOR	
							Title		001011011011	
								419/97		
							Date			
							18 SURV	VEYOR CERT	TIFICATION	
							I heroby certi	ty that the well location	shown on this plat	
							\$1	om field notes of ectual supervision, and that th	•	
							correct to bee	nt of my bullef.		
		<u> </u>						MARCH 20, 1	9 97	
							Date of Sur	1 6 1		
							Signature ar	ad Seal of Protesto	100	
									SURVEYOR	
	İ						5	827	(8) [8]	
							Car	43000	/ [\$]	
						•		13ROFESSIO	LAMIN	
	[Certificate N			
						<u> </u>		02	78	

PROPOSED WELL PLAN OUTLINE

WELL NAME LOCATION

WARREN UNIT NO. 145

660' FNL & 660' FWL, SEC. 25, T-20S, R-38E, LEA CO.

TVD		FORMATION		TYPE OF		CASING		,				
IN		TOPS &	DRILLING	FORMATION	HOLE	CASING		FRAC	FORMATION PRESSURE	MUD	MUD	
1000'	MD	TYPE	PROBLEMS	EVALUATION	SIZE	SIZE	DEPTH	GRAD	GRADIENT	WT	MUD TYPE	DAY
1			POSSIBLE HOLE ENLARGEMENT AND SLOUGHING		12-1/4"				NORM/.L	8.4 - 9.5	FRESH	
2		RUSTLER 1500'	WASHOUTS IN SALT SECTION F/1400' - 2800'			8-5/8" 23#, M-50, ST&C 660 sx, circ cmt	1500'			10	BRINE	3
					1							
	<u> </u>	B/ SALT 2650*										
		YATES 2880										
3		SEVEN RIVERS 3135'										
		QUEEN 3695' PENROSE 3850'		H2S MONITOR ON @ 3500'								
4			POSSIBLE LOSSES AND SEEPAGE TO TOTAL DEPTH						LESS THAN 8.3		-	6
5		GLCRIETA 5550'	CASES OF DIFFERENTI									
			STICKING THROUGH									
6		BLINEBRY MKR. 6020'	GLORIETA									
		TUBB 6510'										
		DRINKARD 6825'										
		TD @ 6900'		GR-CAL-DLL-MLL and		5-1/2"			LESS THAN 8.3	10	STARCH-	
7		ID @ 6900		FDC-CNL-PE 2850'-TD. Pull GR-CAL-CNL t surface.	ю	15.5#, K-55, LT&C 1285 sx, circ cmt	6900'		BHP = 2500 psi		GEL@TD	16
8												
	-											-
					LI			<u>i</u>				i

DATE

09 APR 1997

APPROVED

Roger Williamson DRILLING ENGINEER

Joe Miller RESERVOIR ENGINEER

Well Name : Warren Unit #145

Location : 660 FNL, 660 FWL, SEC. 25, T-20S, R-38E, LEA CO.

Casing Program:

 Surface
 8 5/8"
 casing
 in
 12 1/4"
 Hole
 at
 1500
 ft.

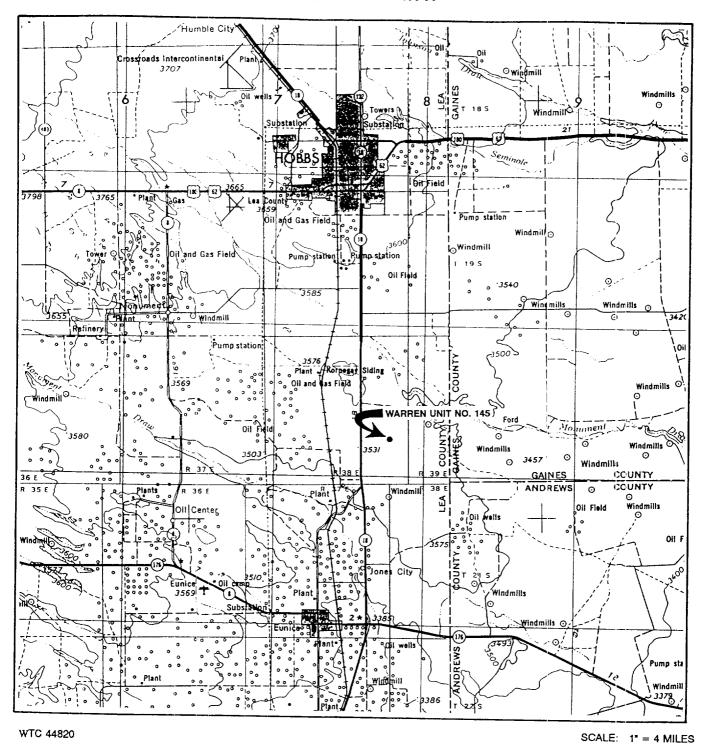
 Production
 5 1/2" - casing
 in
 7 7/8"
 Hole
 at
 6900
 ft.

Cementing Program:

Surface

<u> </u>						
Lead	460	sacks	Class C	Mixed at	12.7	ppg
Additives	35:65:6 (F	oz:Cem:G	el) + 2% CAC	2		_ PP9
	+ 0.25 pp:	s Cello-Fla	ke			-
						_
Tail	200	sacks	Class C	Mixed at	14.8	ppg
Additives	2% A-7P					_PP9
Dwadoodica						_
<u>Production</u>						
Lead	585	sacks	Class C	Mixed at	1.2	ppg
Additives	16% Gel +	2% Salt	+ 0.3% CD-32	+ 0.3% \$	SMS	_
_						-
Tail	700	_ sacks	Class C	Mixed at	14.8	ppg
Additives	1.1% FL-62	+ 1% BA	-58 + 1.5% Sa	lt + 0.3%	CD-32	PP9
	+ 0.2%	SMS			<u> </u>	-
Free Water	0	%	Fluid Loss	30	cc/30 min.	-

VICINITY MAP



SEC. <u>25</u>	TWP	20-S	_ RGE	38-E
SURVEY	N.M.P.M			
COUNTY				
DESCRIPTION	660' FNL	& 660' F\	WL	
ELEVATION	3566'			
OPERATOR				

LEASE WARREN UNIT NO. 145

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS
MIDLAND, TEXAS

EXHIBIT A

BOP SPECIFICATIONS

