CONDITIONS OF APPROVAL, IF ANY:

/S/ Duage W. Spencer

## SUBMIT IN TRIPLICATE\* (Other instructions on

reverse side)

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

MAR 23 1998

DATE

## UNITED STATES DEPARTMENT OF THE INTERIOR

5. LEASE DSIGNATION AND SERIAL NO
SE 078104

(This space for Fe	ederal or State office use)		APPROVAL DATE	MAR 2	र १००५			
SIGNED TO	1 Mil		Mike L. Mankin Right-of-Way Agent		DATE	March 3, 1998		
deepen directionally, give p	CRIBE PROPOSED PROGRA ertinent data on subsurface location	ns and measured and true \	vertical depths. Give blowout preve	zone and propenter program,	osed new productivif any.	ve zone. If proposal is to drill or		
					SUBJÉCT TO C	OMPLIANCE WITH ATTACH		
This application inc	ludes ROW's for the well	pad, access road an	d pipeline.	- 0	861133210 000	0.17(0.110, 4.27)		
			DIST		. O	tue 1		
6. Pipeline survey p			<b>@</b> [[L C@[\	77(6] 61	V7_			
5. Surface Use Plan	with Production Facility	Layout.	<del></del>	0 10.00		• · · · · · · · · · · · · · · · · · · ·		
<ul><li>3. Cementing Plan.</li><li>4. Blowout Prevent</li></ul>	er Hookup.		UU MAR 2	5 1992	U)	en e		
2. Proposed Well P	Acerage Dedication Plat lan Outline.	(C-102).	DECE	IVE				
drilled and equipped	l according to the following	ng additional attachi	ments:		· · · · · · · · · · · · · · · · · · ·			
6-1/4"	K-55, 4-1/2"			NOS was				
8-3/4"	K-55, 7"							
12-1/4"	K-55, 9-5/8"							
SIZE OF HOLE	GRADE, SIZE OF CASING			<del>                                      </del>				
2 3				M	OHANTITY (	DE CEMENT		
12		6086' GR and appe	<u>val-pursuent to 43 CFR 3</u>	3165.4.	1	4/15/98		
	rhether DF, RT, GR, etc )	nrocedur	al rapidow murausant to 43	CFR 3165	22. APPROX. D			
TO NEAREST WELL, I OR APPLIED FOR, ON T	DRILLING, COMPLETED,		7392	4	Rota	ary		
PROPERTY OR LEASI (A lso to nearest d  2 DISTANCE FROM PRO	E LINE, FT. rlg. unit line, if Any) POSED LOCATION*	19.	PROPOSED DEPTH	20. ROTAR	320 W/295.98			
5. DISTANCE FROM PROI LOCATION TO NEARE		161	NO OF ACRES IN LEASE	17. NO. OF TO TH	ACRES ASSIGNE	W-295.98		
14. DISTANCE IN MILES	me buse in the second							
14 DISTANCE IN MILES	AND DIRECTION FROM NEAL							
At proposed prod. zo	ne	820' FNI & 166	ns' FWI.		P			
At surface	(	820' FNL & 160	05' FWL	ŀ				
10 Desta	L (Report location clearly an	d in accordance with a	913-080-3/94 ny State requirements *)	•	72319	7/599		
A. ADDRESS AND TELEPHONE N		TV 70705 4500	015 696 5704	. }				
	Conoco Inc. 5073				9. API WELL NO	1- 1/2-1		
NAME OF OPERATOR				7 UNI 7 UNI 8 FAR 9 API 794 10 F 11 S 12 CC 17 NO. OF ACRE TO THIS WE 20 ROTARY OR C 20 ROTARY OR C 43 CFR 3165.4 RAM Ols. NOS was filed C SUBJ C SUB		/ICK LS #21M		
	GAS WELL OTHER	Midland, Tx. 79705-4500  Mill Sec. 31. T30N, R10W  Mill Sec. 31. T30						
D.R. TYPE OF WELL	RILL 🛛			l				
a. TYPE OF WORK				-	7 UNIT AGRREE	MENT NAME		
APPL	ICATION FOR PE	RMIT TO DRI	LL OR DEEPEN		6 IF INDIAN, ALI	LOTTEE OR TRIBE NAME		
	BUREAU OF I	LAND MANAGEM	ENT					
				1				

\*SeeInstructions On Reverse Side

Application approval does not warrant or certify that the applicant holds legal or equitable title to those righs in the subject lease which would entitle the applicant to conduct operations thereon.

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.

TITLE .

District I PO 80x 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

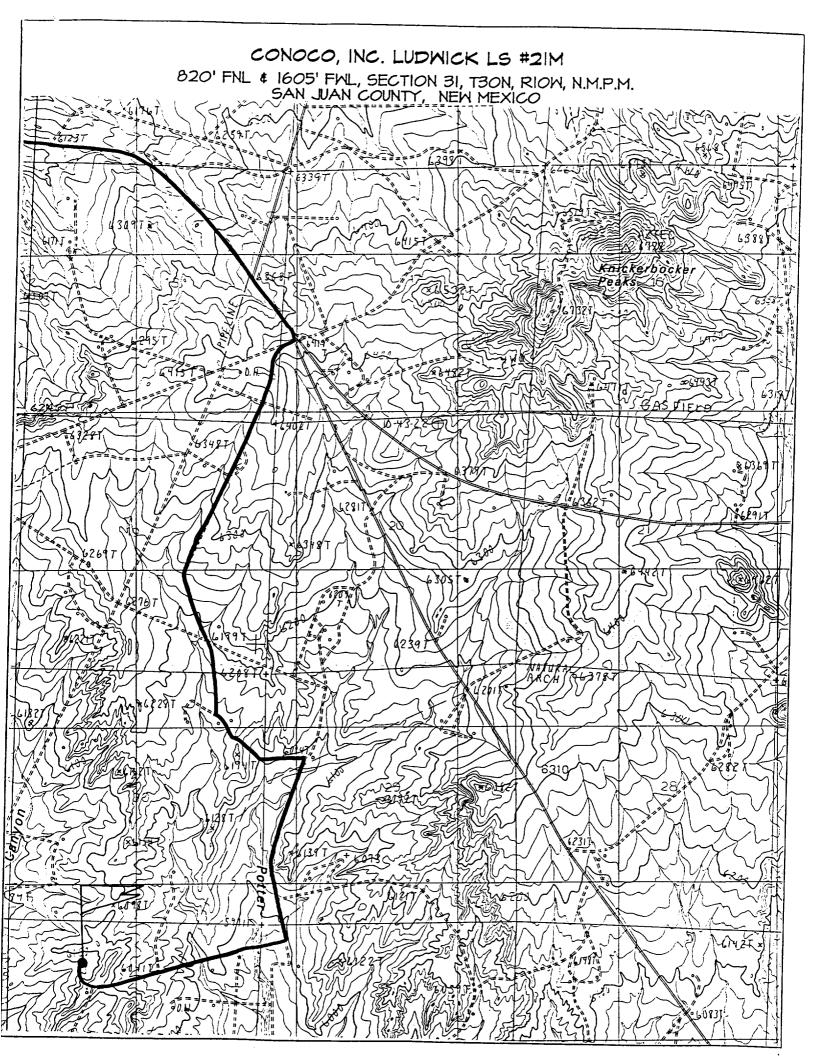
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088

Form C-102 Revised February 21, 1994 Instructions on back

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

AMENDED REPORT

				WELL	LOCAT	ON AN	D AC	REAGE	DEDI	CAT	ION PL	AT			
	¹ A	PI Number	•	700	Pool Cod				ICO 1	4E.C./	Pool Name		2 T N D	AVOTA	
		45-295	65	/2.	319 /	1				1521	VERDE	/ BAS		ARUTA 11 Number	
1	roperty					'Property Name LUDWICK LS					<b>!</b>			21M	
	2239				<del></del>	* Ope	erator	Name					°E	levation	
005073						CONC	CO.	INC.				6086			
					:	<sup>lo</sup> Surfa		ocation.							
UL or	lot no.	Section	Township	Range	Lot Idn	Feet from 820	- 1	NORT			t from the .605	East/We WE		SAN J	
	С	31	30N	10W										JAN U	——
L or	lot no.	Section	Township	ottom Range	Hole L	ocatio		Differ North/South			M Surf	ace East/We	st line	Count	Ey
				·											
12 Ded 10	ated Acres	296.	98			13 Joint	or Infill	<sup>14</sup> Consolida	tion Code	15	Order No.			1	
3	320-	295.9	18												
NO	ALLOW	IABLÉ W	ILL BE A	SSIGNEI NON-SI	O TO THI ANDARD	IS COMPI UNIT HA	_ETIO	N UNTIL EN APPRO	ALL OVED (	INTE 3y t	RESTS H	AVE BE SION	EN CON	NSOLIDA	TED
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	9		1	.0		11			12		Rig		-Way	Agent	
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			<del> </del> 			D)巨(	C国		IJ.	.64	 Date	<u> </u>	- (8		
		<del></del>			31	$M_{-}^{M}$	IAR 2	5 1998	<b>y</b> -	16	18 SURVE	EYOR	CERTI	FICAT	ION
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-											FEB	RUARY	23,	1998	
00			 								Date of Signature and	Survey	Emis	xveyor	
607.				DY							FEB Date of Signature and	E	1/4	2	
26			<i>P</i>	21			: 1						TEXICO	\ <u>s</u>	
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┫	IIJU.	ار ا	1 1204	. 55							<u> </u>		#EXST	<u></u>	



## PROPOSED WELL PLAN OUTLINE

WELL NAM LUDWICK LS No. 21M LOCATION: SEC 31, T-30N, R-10W, SAN JUAN CO., NM

PREPARED:

Ricky Joyce/Ted Ken

EST. GL =

6086

EST. KB =

6097

VO	FORMATION		TYPE CE							
N	TOPS &	DRILLING	TYPE OF		CASING		FRAC	FORMATION	MUD	
	ID TYPE		FORMATION	HOLE	1				MOD	- 1
	ID I TE	PROBLEMS	EVALUATION	SIZE	SIZE	DEPTH	nsi/ft	PSI		
۰ _		1			9-5/8" 38# K-55		POVIC		WT TY	PE DA
<b>-</b>				12-1/4°	ST&C @ 250'			NORMAL	8.4 - 8.8# SPUD MUD	
		1		8-3/4"	CIRC CMT			NOTHIAL	0.4 - 9.0#	
L		1	1						GELWATER	- 1
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<b>-</b>		1	Ì	İ				i	MAINTAIN MW AS	
-1					1			1	LOW AS POSSIBLE	
	OJAM @ 1187	POSSIBLE WATERFLOW	ł	ł				1	CONTROL FLUID LOSS BE	100
⊢	KRLD @ 1326	·		I					CONTROL FLUID LOSS PR	JOE.
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` <b>-</b>	FRLD @ 2140*	POSSIBLE GAS FLOW		1	1				1	
	<b></b>	POSSIBLE GAS FLOW POSSIBLE LOST RETURNS	I			İ				
⊢		ľ		Į.					•	- 1
-  -	PCCF @ 2500'	POSSIBLE DIFFERENTIAL STICKING			]	1			l	
	<b>⊣</b>	STICKING	[	8-3/4"	7" 23# K-55 LTC	- 1				
二二	7		<del></del>	+	@ 2800' (special drift)					5
3	_			6-1/4"		T				<del>-   - "</del>
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	CHRA			1	ł	- 1	ı			1
	7	<b>f</b>			1	- 1	ŀ	475 PSI		1
	3					1	- 1			- 1
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4	7	PROBABLE LOST BETTIEN				- 1	- 1		-	
	CLFH/MV @ 4127' MENF @ 4221'	PROBABLE LOST RETURN IF FLUID IN HOLE				1				1
$\vdash$	MENF @ 4221'	1		1 1			0.5	583 PSI	}	- 1
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	PTLK @ 4803	<u> </u>		1 1		- 1				1
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	GRHN @ 6729'	POSSIBLE MASSES					J			1
1	GRRS DKOT @ 6865	POSSIBLE WATERFLOW POSSIBLE OVERPRESSUR	ASED HOLE LOCK			- 1	- 1			
, 	1	IN DEEP DAKOTA		! !	I-1/2" 9.5# K-55	ĺ	0.5	715 PSI	AIR/AIR MIST/GAS	1
	T.D. 82 7092	W DEEL BAROTA			TC @ 7092"		B	HT = 175 deg F		10
H	NOTE:			['	OC 89 2600					<del>                                     </del>
	PERMIT TO 7392						1		1	
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SF 078194

GEOLOGIST

DRILLING MGR.

RES. ENGINEER

PROD. ENGINEER