Form 3160-3				CTTOLE	THE TAT DESIGNATION.			
(July 1992)				AWALCO ~ (Oth	IT IN TRIPI	ີ້ແຄ່ແມ	FORM	APPROVED IO: 1004-0136
		TED STATES		152	Severse side)	ch Dri	Expires: 1	February 28, 1995
	DEPARTMEN BUREAU OF	I OF THE I	and the second second	196	obbs, NM	8324	NM-056376	TION AND BERIAL NO.
APPL	ICATION FOR P				PEN		6. IF INDIAN, ALL	OTTER OR TRIBE NAME
A. TIPE OF WORK							7. UNIT AGREEME	
DR 5. TYPE OF WELL	XILL 🖾	DEEPEN						EXIN IN STREET
OIL WELL	VELL XX OTHER ,				NULTIPLE		S. FARM OR LEASE NAN	ME WELL NO.
NAME OF OPERATOR	Concho OIT	+ Gas C			234	4	CODORNIZ "2	28" FEDERAL #
ADDRESS AND TELETHONE NO.		(ERICK NELS	SON 9	15-683-744	+3)		9. AT WELL NO.	= 21 inc
110 WEST LOUI		0 MIDLAND,	TEXA	s 79701 (	(915-683-	-7443	30-02.	5-36/75
. LOCATION OF WELL (F At surface	Report location clearly and	in accordance with	th any S	itate requiremen	ts.*)		QUAIL RIDO	
	660' FWL SEC. 28	T19S-R34E	LEA	CO. NM			11. BBC., T., R., M. AND BUEVEY (	- OR BLK. DR AREA
At proposed prod. 20	De SAML	Ď					SECTION 28	3 T19S-R34E
	y 30 miles South				0	-	12. COUNTY OF PA	
D. DISTANCE FROM PROP				. OF ACRES IN I			LEA CO.	NEW MEXICO
LOCATION TO NEARES PROPERTY OB LEASE ( Also to mearest dri	T LINE, <del>FT</del> .	660'	10. 30	320			ACRES ASSIGNED IS WELL	320
S. DISTANCE FROM FROM	COSED LOCATION*			OPOSED DEPTH		. ROTAR	T OR CABLE TOULS	
OR APPLIED FOR. ON TH	US LEASE, PT.	700'		3,800'		ROTAL		
L ELEVATIONS (Show wh	ether DF. RT. GR. etc.)	3710' GR	· Cap	Ran Controll	led Weter B	Received	When appro	E WORE WILL START
3.		PROPOSED CASE					<u>I men appre</u>	
SIZE OF ROLE	GRADE STEE OF CASING	WEIGHT FER P	007	SETTING DE	РТН		QUANTITY OF C	TEMENT
25"	Conductor	NA		40'				with Redi-mix
17 <sup>1</sup> / <sub>2</sub> "	H-40 13 3/8"	48		500'				to surface.
12½"	J-55,HCK-55 85,			5200'		00 Sx	•	
7_7/8''	N-80,S-95 512"	17		13,800'	14	00 Sx	. Est TOC 4	+/00'
			.,				urface with	Redi-mix
1. Drill 25"	hole to 40'. Se	t 40' of 20'	" con	ductor and	d cement	to su	ALTACC WICH	ICCOL MAR!
2. Drill 17½	'hole to 500'.	Run and set	500'	of 13 3/8	3" 48∦ н-	-40 SI	F&C casing.	Cement with
2. Drill 17½' 200 Sx. of		Run and set cement + 2	500 <b>'</b> % CaC	of 13 3/8 1, +additi	3" 48# H- ives, tai	-40 S] 11 in	F&C casing. with 200 Si	Cement with
<ol> <li>Drill 17<sup>1</sup>/<sub>2</sub>'</li> <li>200 Sx. of "C" cement</li> <li>Drill 12<sup>1</sup>/<sub>4</sub>'</li> </ol>	' hole to 500'. E Class "C" Lite = + 2% CaCl, + ½ ' hole to 5200'.	Run and set cement + 2; # Flocele/S; Run and se	500' % CaC x. , t 520	of 13 3/8 1, +additi circulate 0' of 8 5/	8" 48# H- ives, tai cement t /8" casi	-40 SI Ll in to sur	F&C casing. with 200 S face. follows:	Cement with x. of Class 2300' of 8 5/8
<ol> <li>Drill 17½' 200 Sx. of "C" cement</li> <li>Drill 12½' 32# HCK-55</li> </ol>	' hole to 500'. E Class "C" Lite = + 2% CaCl, + ½ ' hole to 5200'. 5 ST&C, 2900' of	Run and set cement + 2; # Flocele/S: Run and se 8 5/8" 32#	500' % CaC x., t 520 J-55	of 13 3/8 1, +additi circulate 0' of 8 5/ ST&C casi	3" 48# H- ives, tai cement t /8" casi ing. Ceme	-40 SI il in to sur ing as ent wi	F&C casing. with 200 S face. follows: ith 1600 Sx	Cement with x. of Class 2300' of 8 5/8 . of Class "C"
<ol> <li>Drill 17<sup>1</sup>/<sub>2</sub>' 200 Sx. of "C" cement</li> <li>Drill 12<sup>1</sup>/<sub>4</sub>' 32# HCK-55 Lite weigh</li> </ol>	' hole to 500'. E Class "C" Lite = + 2% CaCl, + ½ ' hole to 5200'. 5 ST&C, 2900' of at Cement + addi	Run and set cement + 2 # Flocele/S Run and se 8 5/8" 32# tives, tail	500' % CaC x., t 520 J-55 in w	of 13 3/8 1, +additi circulate 0' of 8 5/ ST&C casi	3" 48# H- ives, tai cement t /8" casi ing. Ceme	-40 SI il in to sur ing as ent wi	F&C casing. with 200 S face. follows: ith 1600 Sx	Cement with x. of Class 2300' of 8 5/8 . of Class "C"
<ol> <li>Drill 17<sup>1</sup>/<sub>2</sub>' 200 Sx. of "C" cement</li> <li>Drill 12<sup>1</sup>/<sub>4</sub>' 32<sup>#</sup> HCK-55 Lite weigh Flocels/Sx</li> </ol>	'hole to 500'. Class "C" Lite + 2% CaCl, + $\frac{1}{4}$ 'hole to 5200'. ST&C, 2900' of t Cement + addi c., circulate ce	Run and set cement + 2 # Flocele/S Run and se 8 5/8" 32# tives, tail ment to sur:	500' % CaC x., t 520 J-55 in w face.	of 13 3/8 1, +additi circulate 0' of 8 5/ ST&C casi ith 200 S>	B" 48# H- ives, tai cement t /8" casi ing. Ceme c. of Cla	-40 SJ il in to sur ing as ent wi ass "(	T&C casing. with 200 St cface. s follows: ith 1600 Sx C" cement	Cement with x. of Class 2300' of 8 5/8 . of Class "C" -2% CaCl, + ½#
<ol> <li>Drill 17½' 200 Sx. of "C" cement</li> <li>Drill 12½' 32# HCK-55 Lite weigh Flocels/Sx</li> <li>Drill 7 7/</li> </ol>	'hole to 500'. Class "C" Lite $+ 2\%$ CaCl, $+ \frac{1}{2}$ 'hole to 5200'. 5 ST&C, 2900' of at Cement + addi c, circulate ce '8" hole to 13,8	Run and set cement + 2; # Flocele/S; Run and se 8 5/8" 32# tives, tail mént to sur; 00!. Run and	500' % CaC x., t 520 J-55 in w face. d set	of 13 3/8 1, +additi circulate 0' of 8 5/ ST&C casi ith 200 S> 13.800' c	8" 48# H- ives, tai cement t /8" casi ing. Ceme c. of Cla	-40 SI il in to sur ing as ent wi ass "( asing/	T&C casing. with 200 States face. s follows: ith 1600 Sx C" cement 235 follows	Cement with x. of Class 2300' of 8 5/8 . of Class "C" 2% CaCl, + ½# . 3700\ of 55"
<ol> <li>Drill 17<sup>1</sup>/<sub>2</sub>' 200 Sx. of "C" cement</li> <li>Drill 12<sup>1</sup>/<sub>4</sub>' 32# HCK-55 Lite weigh Flocels/Sx</li> <li>Drill 7 7/ 17# S-95 I</li> </ol>	'hole to 500'. Class "C" Lite + 2% CaCl, + $\frac{1}{4}$ 'hole to 5200'. ST&C, 2900' of t Cement + addi c, circulate ce '8" hole to 13,8 T&C, 7600' of 5	Run and set cement + 2 # Flocele/S Run and se 8 5/8" 32# tives, tail mént to sur 00!. Run and ½" 17# N-80	500' % CaC x., 1 520 J-55 in w face. d set LT&C	of 13 3/8 1, +additi circulate 0' of 8 5/ ST&C casi ith 200 S> 13,800' c , 2500' of	8" 48# H- ives, tai cement t /8" casi ing. Ceme c. of Cla of 5½" ca 5½" ca	-40 ST il in to sur ing as ent wi ass "C asing, N-80	T&C casing. with 200 S cface. s follows: ith 1600 Sx C'' cement as follows Buttresem	Cement with x. of Class 2300' of 8 5/8 . of Class "C" 2% CaCl, + ½# . 3700' of 5½" phread. Cement
<ol> <li>Drill 17<sup>1</sup>/<sub>2</sub>' 200 Sx. of "C" cement</li> <li>Drill 12<sup>1</sup>/<sub>4</sub>' 32# HCK-55 Lite weigh Flocels/Sx</li> <li>Drill 7 7/ 17# S-95 I with 700 S</li> </ol>	'hole to 500'. Class "C" Lite $+ 2\%$ CaCl, $+ \frac{1}{2}$ 'hole to 5200'. 5 ST&C, 2900' of at Cement + addi c, circulate ce '8" hole to 13,8	Run and set cement + 2 # Flocele/S Run and se 8 5/8" 32# tives, tail mént to sur 00!. Run an ½" 17# N-80 Lite weigh	500' % CaC x., J-55 in w face. d set LT&C t cem	of 13 3/8 1, +additi circulate 0' of 8 5/ ST&C casi ith 200 Sx 13,800' c , 2500' of ent + addi	8" 48# H- ives, tai cement t /8" casi ing. Ceme c. of Cla of 5½" ca 5½" 17# itives, t	-40 SJ il in co sur ing as ent wi ass "C asing? N 780 cail SJ	T&C casing. with 200 States face. s follows: ith 1600 Sx C" cement as follows Buttress buttress in with 700	Cement with x. of Class 2300' of 8 5/8 . of Class "C" 2% CaCl, + ½# >> . 3700' of 5½" phread. Cement Sx. of Class
<ol> <li>2. Drill 17<sup>1</sup>/<sub>2</sub>' 200 Sx. of "C" cement</li> <li>3. Drill 12<sup>1</sup>/<sub>4</sub>' 32# HCK-55 Lite weigh Flocels/Sx</li> <li>4. Drill 7 7/ 17# S-95 I with 700 S "H" Premiu</li> </ol>	'hole to 500'. Class "C" Lite $+ 2\%$ CaCl, $+ \frac{1}{4}$ 'hole to 5200'. ST&C, 2900' of t Cement + addi c, circulate ce '8" hole to 13,8 T&C, 7600' of 55 Sx. of Class "H" m Plus cement + E PROPOSED PROGRAM: If	Run and set cement + 2 # Flocele/S Run and se 8 5/8" 32# tives, tail ment to sur: 00!. Run and 2" 17# N-80 Lite weigh additives,	500' % CaC x., t 520 J-55 in w face. d set LT&C t cem estim give data	of 13 3/8 1, +additic circulate 0' of 8 5/ ST&C casis ith 200 Sx 13,800' co , 2500' of ent + addis mate top co	B" 48# H- ives, tai cement t /8" casi ing. Ceme c. of Cla of 5½" ca 5½" 17# itives, t of cement	-40 SJ 11 in to sur ing as ent with ass "C assing N-80 tail N-80 tail S 4 N-80 tail S 4 N-80 tail S 5 N 5 N 5 N 5 N 5 N 5 N 5 N 5 N 5 N 5 N	T&C casing. with 200 St face. s follows: ith 1600 Sx C" cement 23 Sas follows Buttress buttress in with 700 C'. FLCL Hobbs	Cement with x. of Class 2300' of 8 5/8 . of Class "C" 2% CaCl, + ½# >> . 3700' of 5½" phread. Cement Sx. of Class
<ol> <li>2. Drill 17<sup>1</sup>/<sub>2</sub>' 200 Sx. of "C" cement</li> <li>3. Drill 12<sup>1</sup>/<sub>4</sub>' 32# HCK-55 Lite weigh Flocels/Sx</li> <li>4. Drill 7 7/ 17# S-95 I with 700 S "H" Premiu</li> </ol>	'hole to 500'. Class "C" Lite $+ 2\%$ CaCl, $+ \frac{1}{2}$ 'hole to 5200'. ST&C, 2900' of t Cement + addi c, circulate ce '8" hole to 13,8 T&C, 7600' of 5 Sx. of Class "H" im Plus cement +	Run and set cement + 2 # Flocele/S Run and se 8 5/8" 32# tives, tail ment to sur: 00!. Run and 2" 17# N-80 Lite weigh additives,	500' % CaC x., f 520 J-55 in w face. d set LT&C t cem estim give data	of 13 3/8 1, +additic circulate 0' of 8 5/ ST&C casis ith 200 Sx 13,800' co , 2500' of ent + addis mate top co	B" 48# H- ives, tai cement t /8" casi ing. Ceme c. of Cla of 5½" ca 5½" 17# itives, t of cement	-40 SJ 11 in to sur ing as ent with ass "C assing N-80 tail N-80 tail S 4 N-80 tail S 4 N-80 tail S 5 N 5 N 5 N 5 N 5 N 5 N 5 N 5 N 5 N 5 N	T&C casing. with 200 S face. s follows: ith 1600 Sx C" cement as follows Buttress buttress in with 700 C'. FLCL Hobbs	Cement with x. of Class 2300' of 8 5/8 . of Class "C" 2% CaCl, + ½# 2% CaCl, + ½# : 3700' of 5½" phread. Cement ED. If proposities to shill or
<ol> <li>2. Drill 17<sup>1</sup>/<sub>2</sub>' 200 Sx. of "C" cement</li> <li>3. Drill 12<sup>1</sup>/<sub>4</sub>' 32# HCK-55 Lite weigh Flocels/Sx</li> <li>4. Drill 7 7/ 17# S-95 I with 700 S "H" Premiu</li> </ol>	'hole to 500'. Class "C" Lite $+ 2\%$ CaCl, $+ \frac{1}{2}$ 'hole to 5200'. 5 ST&C, 2900' of at Cement + addi c, circulate ce '8" hole to 13,8 T&C, 7600' of 5 Sx. of Class "H" im Plus cement + E PROPOSED PROGRAM: If inent data on subsurface location +	Run and set cement + 2 # Flocele/S Run and se 8 5/8" 32# tives, tail ment to sur: 00!. Run and 2" 17# N-80 Lite weigh additives,	500' % CaC x., t 520 J-55 in w face. d set LT&C t cem estim give data we vertice	of 13 3/8 1, +additic circulate 0' of 8 5/ ST&C casis ith 200 Sx 13,800' co , 2500' of ent + addis mate top co	B" 48# H- ives, tai cement t /8" casi ing. Ceme c. of Cla of 5½" ca 5½" 17# itives, t of cement	-40 SJ 11 in to sur ing as ent with ass "C assing N-80 tail N-80 tail S 4 N-80 tail S 4 N-80 tail S 5 N 5 N 5 N 5 N 5 N 5 N 5 N 5 N 5 N 5 N	T&C casing. with 200 St face. s follows: ith 1600 Sx C" cement 23 Sas follows Buttress buttress in with 700 C'. FLCL Hobbs	Cement with x. of Class 2300' of 8 5/8 . of Class "C" 2% CaCl, + ½# 2% CaCl, + ½# 3700' of 5½" chread. Cement ED. If proposal is to shill or
<ol> <li>Drill 17<sup>1</sup>/<sub>2</sub>' 200 Sx. of "C" cement</li> <li>Drill 12<sup>1</sup>/<sub>4</sub>' 32# HCK-55 Lite weigh Flocels/Sx</li> <li>Drill 7 7/ 17# S-95 I with 700 S "H" Premity</li> </ol>	'hole to 500'. Class "C" Lite $+ 2\%$ CaCl, $+ \frac{1}{4}$ 'hole to 5200'. 5 ST&C, 2900' of at Cement + addi c., circulate ce '8" hole to 13,8 T&C, 7600' of 5 Sx. of Class "H" im Plus cement + E PROPOSED PROGRAM: If inent data on subsurface location of Caller State effert	Run and set cement + 2; # Flocele/S: Run and se 8 5/8" 32# tives, tail ment to sur: 00!. Run and 2" 17# N-80 Lite weigh additives, proposal is to deepen, p and measured and a	500' % CaC x., t 520 J-55 in w face. d set LT&C t cem esti give data surverice	of 13 3/8 1, +additic circulate 0' of 8 5/ ST&C casis ith 200 Sa 13,800' co , 2500' of ent + addis mate top co on present produce 1 depth Give blow gent 73407	B" 48# H- ives, tai cement t /8" casi ing. Ceme c. of Cla of 5½" ca 5½" 17# itives, t of cement tive zone and p	-40 SJ 11 in 10 sur ing as ent wi assing N-8( cail(S) cail(S) cail(S) cail(S) cail(S) conserved N-8( cail(S) cail(	T&C casing. with 200 Strace. s follows: ith 1600 Sx C" cement as follows Buttress In with 700 . FLCL Hobbs Hobbs	Cement with x. of Class 2300' of 8 5/8 . of Class "C" 2% CaCl, + 2# . 3700' of 5 <sup>1</sup> 2" phread. Cement Sx. of Class If proposition to drill or
<ol> <li>Drill 17<sup>1</sup>/<sub>2</sub>' 200 Sx. of "C" cement</li> <li>Drill 12<sup>1</sup>/<sub>4</sub>' 32# HCK-55 Lite weigh Flocels/Sx</li> <li>Drill 7 7/ 17# S-95 I with 700 S "H" Premiu</li> <li>ABOVE SPACE DESCRIB epen directionally, give Proj Stensen</li> </ol>	'hole to 500'. Class "C" Lite $+ 2\%$ CaCl, $+ \frac{1}{2}$ 'hole to 5200'. ST&C, 2900' of the Cement + addi c, circulate cer '8" hole to 13,8 T&C, 7600' of 5 Sx. of Class "H" im Plus cement + E PROPOSED PROGRAM: If inent data on subsurface location f OPI ral or State office OPI PF(	Run and set cement + 2; # Flocele/S: Run and se 8 5/8" 32# tives, tail ment to sur: 00!. Run and 2" 17# N-80 Lite weigh additives, proposal is to deepen, pro- set deepen, pro- cent deepen, pro- set deepen, pro- cent deepen, pro-	500' % CaC x., t 520 J-55 in w face. d set LT&C t cem esti give data give data esti give data	of 13 $3/8$ 1, +additic circulate 0' of 8 5/ ST&C casis ith 200 So 13,800' of ent + addi mate top of on present produce 1 depths. Give blow gent 73 407 040	B" 48# H- ives, tai cement t /8" casi ing. Ceme c. of Cla of 5½" ca 5½" 17# itives, t of cement ive zone and p - APPRO GENER	-40 SJ il in ing as ent wind ass "( asing, N-8, cail, asing, tail, roposed,	T&C casing. with 200 States face. s follows: ith 1600 Sx c" cement + Ass follows Buttress but	Cement with x. of Class 2300' of 8 5/8 . of Class "C" 2% CaCl, + ½# . 3700' of 5½" phread. Cement EX. of Class If proposities to drill or 
<ol> <li>Drill 17<sup>1</sup>/<sub>2</sub>' 200 Sx. of "C" cement</li> <li>Drill 12<sup>1</sup>/<sub>4</sub>' 32# HCK-55 Lite weigh Flocels/Sx</li> <li>Drill 7 7/ 17# S-95 I with 700 S "H" Premiu</li> <li>ABOVE SPACE DESCRIB con directorally. give Project SIGNED</li> <li>This space for Fede</li> </ol>	'hole to 500'. E Class "C" Lite E Class "C" Lite E + 2% CaCl, + $\frac{1}{4}$ 'hole to 5200'. 5 ST&C, 2900' of 5 ST&C, 2900' of 6 Cement + addi 6, circulate ce 78" hole to 13,8 T&C, 7600' of 5 Sx. of Class "H" im Plus cement + E PROPOSED PROGRAM: If inent data on subsurface location f f f f f f f f	Run and set cement + 2 # Flocele/S: Run and se 8 5/8" 32# tives, tail ment to sur: 00!. Run and 2" 17# N-80 Lite weigh additives, proposal is to deepen, additives, ER. OGRID NO DERTY NO DERTY NO	500' % CaC x., t 520 J-55 in w face. d set LT&C t cem estim give data we vertice give data () give data ()	of 13 $3/8$ 1, +additic circulate 0' of 8 5/ ST&C casis ith 200 Sx 13,800' co , 2500' of ent + addi mate top co on present produce 1 depths Giveblow gent 73 407 040 80	B" 48# H- ives, tai cement t /8" casi ing. Ceme c. of Cla of 5½" ca 5½" 17# itives, t of cement tive zone and p word preventer p	-40 SJ 11 in to sur ing as ent with ass "C assing? N-80 to sur sing? N-80 to sur assing? N-80 to sur assing? N-80 to sur N-80 to sur N-	T&C casing. with 200 Strace. s follows: ith 1600 Sx C" cement as follows buttress buttress buttress in with 700 C. RECEV Hobbs South 200 Strace Hobbs Strace Hobbs Strace Hobbs Strace Hobbs	Cement with x. of Class 2300' of 8 5/8 of Class "C" 2% CaCl, + 2# 2% CaCl, + 2# 3700' of 5 <sup>1</sup> 2" hread. Cement Sx. of Class If proposal is to drill or 15/03
<ol> <li>Drill 17<sup>1</sup>/<sub>2</sub>' 200 Sx. of "C" cement</li> <li>Drill 12<sup>1</sup>/<sub>4</sub>' 32# HCK-55 Lite weigh Flocels/Sx</li> <li>Drill 7 7/ 17# S-95 I with 700 S "H" Premiu</li> <li>ABOVE SPACE DESCRIB SIGNED</li> <li>This space for Fede</li> </ol>	'hole to 500'. Class "C" Lite + 2% CaCl, + ½ 'hole to 5200'. 5 ST&C, 2900' of at Cement + addi c., circulate ce '8" hole to 13,8 T&C, 7600' of 5 Sx. of Class "H" am Plus cement + E PROPOSED PROGRAM: If inent data on subsurface location Fal or State office PRO Conservation cortify	Run and set cement + 2; # Flocele/S: Run and se 8 5/8" 32# tives, tail ment to sur: 00!. Run and 2" 17# N-80 Lite weigh additives, proposal is to deepen, additives, ER. OGRID NO CPEATY NO CLOODE _8 5. DATE _3	500' % CaC x., t 520 J-55 in w face. d set LT&C t cem esti give data esti give data () 	of 13 $3/8$ 1, +additic circulate 0' of 8 5/ ST&C casif ith 200 SP 13,800' c , 2500' of ent + addite mate top constructed on present product 1 depths Give blow gent 73 407 040 80	B" 48# H- ives, tai cement t /8" casi ing. Ceme c. of Cla of 5½" ca 5½" 17# itives, t of cement tive zone and p word preventer p	-40 SJ 11 in to sur ing as ent with ass "C assing? N-80 to sur sing? N-80 to sur assing? N-80 to sur assing? N-80 to sur N-80 to sur N-	T&C casing. with 200 Strace. s follows: ith 1600 Sx C" cement as follows buttress buttress buttress in with 700 C. RECEV Hobbs South 200 Strace Hobbs Strace Hobbs Strace Hobbs Strace Hobbs	Cement with x. of Class 2300' of 8 5/8 of Class "C" 2% CaCl, + 2# 2% CaCl, + 2# 3700' of 5 <sup>1</sup> 2" hread. Cement Sx. of Class If proposal is to drill or 15/03
<ol> <li>Drill 17<sup>1</sup>/<sub>2</sub>' 200 Sx. of "C" cement</li> <li>Drill 12<sup>1</sup>/<sub>4</sub>' 32# HCK-55 Lite weigh Flocels/Sx</li> <li>Drill 7 7/ 17# S-95 I with 700 S "H" Premiu</li> <li>ABOVE SPACE DESCRIB epen directorally. give projection</li> <li>SIGNED</li> <li>(This space for Fede PEBMIT NO.</li> <li>Application approval does of CONDITIONS OF APPROVAL</li> </ol>	'hole to 500'. Class "C" Lite + 2% CaCl, + ½ 'hole to 5200'. 5 ST&C, 2900' of at Cement + addi c., circulate ce '8" hole to 13,8 T&C, 7600' of 5 Sx. of Class "H" am Plus cement + E PROPOSED PROGRAM: If inent data on subsurface location Fal or State office PRO Conservation cortify	Run and set cement + 2; # Flocele/S: Run and se 8 5/8" 32# tives, tail ment to sur: 00!. Run and 2" 17# N-80 Lite weigh additives, proposal is to deepen, s and measured and the ER. OGRID NO DERTY NO DERTY NO DERTY NO DERTY NO	500' % CaC x., t 520 J-55 in w face. d set LT&C t cem esti give data esti give data (.3, .3, .3, .3, .3, .4, .4, .5, .5, .4, .5, .5, .4, .5, .4, .5, .4, .5, .4, .5, .5, .5, .5, .5, .5, .5, .5, .5, .5	of 13 $3/8$ 1, +additic circulate 0' of 8 5/ ST&C casif ith 200 SP 13,800' c , 2500' of ent + addite mate top constructed on present product 1 depths Give blow gent 73 407 040 80	B" 48# H- ives, tai cement t (8" casi ing. Ceme c. of Cla of 5½" ca 5½" 17# itives, t of cement tive zone and p Cement SPECIA AFPAC	-40 SJ 11 in to sur ing as ent with ass "C assing? N-80 to sur sing? N-80 to sur assing? N-80 to sur assing? N-80 to sur N-80 to sur N-	T&C casing. with 200 Strace. s follows: ith 1600 Sx C" cement as follows buttress buttress buttress in with 700 C. RECEV Hobbs South 200 Strace Hobbs Strace Hobbs Strace Hobbs Strace Hobbs	Cement with x. of Class 2300' of 8 5/8 . of Class "C" 2% CaCl, + ½# . 3700' of 5½" phread. Cement EX. of Class If propositie to drill or 

"itle 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency nited States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

# · · · · · · TMDM OVAL TO UABRUB 26:8 MA 31 NAL E002 BECEIN **NO7** $( \exists)$ . .

DISTRICT I . 1625 N. French Dr., Hobbs, NM 58240

DISTRICT II 811 South First, Artesia, NM 88210

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

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505 State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised March 17, 1999

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

# OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 87505

□ AMENDED REPORT







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	CODORNIZ "28" FEDERAL #1 Located at 860' FNL and 660' FWL Section 28, Township 19 South, Range 34 East, OCD N.M.P.M., Lea County, New Mexico.															
	P.o. Box 1786           1120 N. West County Rd.           Hobbs, New Mexico 88241           (505) 393-7316 - Office           (505) 392-3074 - Fax           Scale: 1" = 2 MILES           CORP.															
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#### APPLICATION TO DRILL

CONCHO OIL & GAS CORP. CODORNIZ "28" FEDERAL # 1 UNIT "D" SECTION 28 LEA CO. NM T19S-R34E

In response to questions asked under Section II of Bulletin NTL-6 the following information on the above well is provided for your consideration.

1. Location: 860' FNL & 660' FWL SEC. 28 T19S-R34E LEA CO. NM

2. Elevation above Sea Level: 3710' GR.

3. Geologic name of surface formation: Quaternery Aeolian Deposits.

4. Drilling tools and associated equipment: Conventional rotary drilling rig using drilling mud as a circulating medium for solids removal from hole.

5. Proposed drilling depth: 13,800'

6. Estimated tops of geological markers:

Tansil	3378'	Wolfcamp	10,843'
Queen	4548'	Strawn	12,220'
Delaware Mt Gr.	5459'	Atoka	12,572'
Bone Spring	8123'	Morrow	12,772'

7. Possible mineral bearing formations:

	Delaware	0i1	Strawn	Gas
•	Bone Spring	Oil	Atoka	Gas
	Wolfcamp	0i1	Morrow	<sup>∧</sup> Gas
8.	Casing program:			0.03

8. Casing program:

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<u>Hole size</u>	Interval	OD of casing	Weight	Thread	Gullsan	
25''	0-40'	20"	NA	NA	NA	Conductor
17 <sup>1</sup> 2''	0-500'	13 3/8"	48	8-R	ST&C	H-40
12 <sup>1</sup> / <sub>4</sub> "	0-5200'	8 5/8"	32	8-R	ST&C	HCK-55,J-55
7 7/8"	0-13,800'	5 <sup>1</sup> 2''	17	8-R &	LT&C	S-95, N-80
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#### APPLICATION TO DRILL

CONCHO OIL & GAS CORP. CODORNIZ "28" FEDERAL # 1 UNIT "D" SECTION 28 T19S-R34E LEA CO. NM

## 9. CASING CEMENTING & SETTING DEPTH:

20"	Conductor	Set 40' of 20" conductor and cement to surface with	
		Redi-mix.	
			- <b>L</b>

- 13 3/8" Surface Set 500' of 13 3/8" 48# H-40 ST&C casing. Cement with 200 Sx. of Class "C" Lite cement + additives, tail in with 200 Sx. of Class "C" cement +2%CaCl, + ½# Flocele/ Sx. circulate cement to surface.
- 8 5/8" Intermediate Set 5200' of 8 5/8" casing as follows: 2300' of 8 5/8" 32# HCK-55 ST&C, 2900' of 8 5/8" 32# J-55 ST&C. Cement with 1600 Sx. of Class "C" Lite cement + additives, tail in with 200 Sx. of Class "C" cement + 2% CaCl, + ½# Flocele/ Sx. circulate cement to surface.
- 5½" Production Set 13,800' of 5½" casing as follows: 3700' of 5½" 17# S-95 LT&C, 7600' of 5½" 17# N-80 LT&C, 2500' of 5½" 17# N-80 BUTTRESS THREAD. Cement with 700 Sx. of Class "H" Lite cement + additives, tail in with 700 Sx. of Class "H" Premium Plus cement + additives, estimate top of cement 4700' from surface.
- 10. <u>PRESSURE CONTROL EQUIPMENT:</u> Exhibit "E" shows a 1500 Series 5000 PSI working pressure B.O.P. consisting of an annular bag type preventor, middle blind rams and bottom pipe rams. The B.O.P. will be nippled up on the 13 3/8" casing and tested to API specifications. The B.O.P. will be operated at least once in each 24 hour period and the blind rams will be operated when drill pipe is out of hole on trips. Full opening stabbing valve and upper kelly cock will be utilized. Exhibit "E-1" shows a hydraulically operated closing unit and a 2" 5000 PSI choke manifold with dual adjustable chokes. No abnormal pressures or temperatures are expected.
- 11. PROPOSED MUD CIRCULATING SYSTEM:

DEPTH	MUD WT.	VISC.	FLUID LOSS	TYPE MUD SYSTEM
40-500'	8.4-8.6	29-32	NC	Fresh water Spud mud add paper to control seepage.
500-5200'	10.1-10.3	29-38	NC A 2003	Brine water use paper to control seepage and high viscosity sweeps to clean Hole.
5200-12,800'	9.5-10.0	29-40	Hobbs OCD	Cut Brine using high viscosity sweeps to clean hole.
12,800-13,800'	9.5-10.0	34–40	10 cc. or less	Add Polymer to mud system to reduce water loss to the desired level and use high viscosity sweeps to clean hole.

Sufficient mud materials will be kept on location at all times in order to combat lost circulation, or unexpected kicks. In order to run DST's , open hole logs, and casing viscosity and/or water loss may have to be adjusted to meet these needs.

#### APPLICATION TO DRILL

CONCHO OIL & GAS CORP. CODORNIZ "28" FEDERAL # 1 UNIT "D" SECTION 28 T19S-R34E LEA CO. NM

#### 12. LOGGING, CORING, TESTING: PROGRAM:

- A. Open hole logs: Dual Laterolog, SNP, LDT, Gamma Ray Caliper from TD back to 8 5/8" Intermediate casing shoe.
- B. Cased hole logs Gamma Ray, Neutron from 8 5/8" casing shoe back to surface.
- C. Place Mud Logger on hole at 5200±'.
- D. Cores and DST's will be taken at the Geologist's request.

## 13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. Hydrogen Sulfide gas may be encountered,  $H_2S$  detectors will be in place to detect any presence of unsafe levels of  $H_2S$ . No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operations of all equipment that will be used. Estimated BHP 6000 PSI & estimated BHT 200°

## 14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Roads and location construction will begin after the BLM approves the APD. Anticipated spud date will be as soon as pad & road construction has been completed. Drilling time for the well is estimated to take <u>60</u> days. If production casing is run an additional <u>30</u> days will be required to complete well and construct surface facilities.

### 15. OTHER FACETS OF OPERATION:

After running production casing, cased hole Gamma-Neutron & Collar logs will be run over all possible pay intervals. If commercial production from the <u>MORROW</u> pay is indicated it will be perforated and stimulated. Then if necessary the pay will be swab tested and completed as a gas well.



- 1. All Company and Contract personnel admitted on location must be trained by a qualified H<sub>2</sub>S safety instructor to the following:
  - A. Characteristics of H<sub>2</sub>S
  - B. Physical effects and hazzards
  - C. Proper use of safety equipment and life support systems.
  - D. Principle and operation of H<sub>2</sub>S detectors, warning system and briefing areas.
  - E. Evacuation procedure, routes and first aid.
  - F. Proper use of 30 minute pressure demand air pack.
- 2. H<sub>2</sub>S Detection and Alarm Systems
  - A. H<sub>2</sub>S detectors and audio alarm system to be located at bell nipple, end of blooie line (mud pit) and on derrick floor or doghouse.
- 3. Windsock and/or wind streamers
  - A. Windsock at mudpit area should be high enough to be visible.
  - B. Windsock at briefing area should be high enough to be visible.
  - C. There should be a windsock at entrance to location.
- 4. Condition Flags and Signs
  - A. Warning sign on access road to location.
  - B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow flag indicates potential pressure and danger. Red flag, danger, H2S present in dangerous concentration. Only emergency personnel admitted to location.
- 5. Well control equipment
  - A. See exhibit "E" & "E-1"
- 6. Communication
  - A. While working under masks chalkboards will be used for communication.
  - B. Hand signals will be used where chalk board is inappropriate.
  - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephoned will be available at most drilling foreman's trailer or living quarters.
- 7. Drillstem Testing
  - A. Exhausts will be watered.
  - B. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
  - C. If the location is near to a dwelling a closed DST will be perform

- 8. Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubular goods and other mechanical equipment.
- 9. If H<sub>2</sub>S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with H<sub>2</sub>S scavengers if necessary.

#### SURFACE USE PLAN

CONCHO OIL & GAS CORP. CODORNIZ "28" FEDERAL # 1 UNIT "D" SECTION 28 T19S-R34E LEA CO. NM

- 1. <u>EXISTING ROADS</u>: Area roads, Exhibit "B" is a reproduction of a County General Hiway Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing exixting roads and proposed roads. All existing roads will be maintained in a condition equal to or better than current conditions. Any new roads will be constructed to BLM specifications.
  - A. Exhibit "A" shows the proposed well site location as staked.
  - B. From Hobbs New Mexico take U.S. Hi-way 62-180 West toward Carlsbad New Mexico. Go 24 miles past Mile Post 76 .8 mi turn North on caliche lease road go 1.6 miles turn Left (West) go .4 Miles to location on the south side of road.

2. PLANNED ACCESS ROADS: No new road is necessary.

- A. The access road will be crowned and ditched to a 12' wide travel surface with a 40' Right-of-Way.
- B. Gradient on all roads will be less than 5%.
- C. Turnouts will be constructed as required or as directed by the BLM.
- D. If needed roads will be surfaced with a minimum of 4" of caliche. This material will be obtained from a local source.
- E. Center line for the new access road has been staked and flagged. Earthwork will be done as required by field and topographic conditions.
- F. Colverts in the access road will be used where necessary. The road will be constructed to utilize low water crossings for drainage as dictated by the topography.
- 3. LOCATION OF EXISTING WELLS WITHIN A ONE-MILE RADIUS SHOWN ON EXHIBIT "A-1".

Α.	Water wells	None known
Β.	Disposal wells	None known
c.	Drilling wells	None known
D.	Producing wells	As shown on Exhibit "A-1"
E.	Abandoned wells	As shown on Exhibit "A-1"
F.	Injection wells	None known

#### SURFACE USE PLAN

CONCHO OIL & GAS CORP. CODORNIZ "28" FEDERAL # 1 UNIT "D" SECTION 28 T19S-R34E LEA CO. NM

4. If this well is completed as a producer the operator will apply for pipeline R-O-W on a Sundry report if if one is required.

#### 5. LOCATION AND TYPE OF WATER SUPPLY:

Water will be purchased locally from a commercial source and trucked over the access roads or piped to location in flexible lines laid on top of the ground.

#### 6. SOURCE OF CONSTRUCTION MATERIAL:

If possible construction material will be obtained from the excavation of drill site, if additional material is needed it will be obtained from a local source and transported over the access roads as shown on Exhibit "C".

#### 7. METHODS OF HANDLING WASTE MATERIAL:

- A. Drill cuttings will be disposed of in the reserve pits.
- B. All trash, junk and other waste material will be contained in trash cages or trash bins to prevent scattering. When the job is completed all contents will be removed and disposed of in a approved sanitary land fill.
- C. Salts remaining after completion of well will be picked up by the supplier, including broken sacks.
- D. Waste water from living quaters will be drained into holes with a minium of 10'. These holes will be covered during drilling and will be back filled when the well is completed. A Porto-John will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- E. Remaining drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry enough to be broken out for furthed drying. If the drilling fluids do not evaporate in a reasonable time they will be hauled off by transports to a state approve disposal site. Later pips will be broken out to speed drying. Water produced during completion will be put in reserve pits. Oil and condensate produced will be put in storage tanks and sold.
- 8. ANCILLARY FACILITIES:
  - A. No camps or air strips will be constructed on location.

CONCHO OIL & GAS CORP. CODORNIZ "28" FEDERAL # 1 UNIT "D" SECTION 28 T19S-R34E LEA CO. NM

- 9. WELL SITE LAYOUT
  - A. Exhibit "D" shows the proposed well site layout.
  - B. This exhibit indicated proposed location of reserve and sump pits and living facilities.
  - C. Mud pits in the active circulating system will be steel pits & the reserve pit is proposed to be unlined unless subsurface condition encountered during pit construction indicate that lining is needed for lateral containment of fluids.
  - D. If needed, the reserve pit is to be lined with polyethelene. The pit liner will be 6 mils thick. Pit liner will extend a minimum 2'00" over the reserve pits dikes where the liner will be anchored down.
  - E. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion phases. The fourth side will be fenced after all drilling operations have ceased. If the well is a producer, the reserve pit fence will be torn down. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.
- 10. PLANS FOR RESTORATION OF SURFACE

Rehabilitation of the location and reserve pit will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

However, in either event, the reserve pit will be allowed to dry properly, and fluid removed and disposed of in accordance with Article 7.B as previously noted. The pit area will then be leveled and contoured to conform to the original and surrounding area. Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be contoured to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas which are not required for production facilities  $\sqrt{2}$ 

#### SURFACE USE PLAN

CONCHO OIL & GAS CORP. CODORNIZ "28" FEDERAL # 1 UNIT "D" SECTION 28 T19S-R34E LEA CO. NM

#### 11. OTHER INFORMATION:

- A. Topography consists of sand dunes with a slight dip to the West. Deep sandy soil supports shinnery oak, native grasses, and an occasional mesquite tree.
- B. The surface and minerals are owned by The U. S. Department of Interior, and is administered by The Bureau of Land Management. The surface is used for the production of oil and gas in addition to livestock grazing.
- C. An archaeological survey will be conducted on the location and access roads. This report will be filed with The Bureau of Land Management in the Carlsbad field office.
- D. There are no dwellings in the near vicinity of this location.

## 12. OPERATORS REPRESENTIVES:

#### Before construction:

TIERRA EXPLORATION, INC P.O. BOX 2188 HOBBS, NEW MEXICO 88241 OFFICE Ph. 505-391-8503 JOE T. JANICA

#### During and after construction:

CONCHO OIL & GAS CORP. 110 WEST LOUISIANA SUITE 410 MIDLAND, TEXAS 79701 ERICK NELSON PHONE 915-683-7443

13. <u>CERTIFICATION</u>: I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access roads, and that I am fimiliar 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 CONCHO OIL & GAS CORP. it's contractors/subcontractors is in compformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provision of U.S.C. 1001 for the filing of a false report.

NAME DATE 12 TITLE Agent

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ARRANGEMENT SRRA

1500 Series 5000# Working Pressure



EXHIBIT "E" SKETCH OF B.O.P. TO BE USED ON CONCHO: OIL & GAS CORP. CODORNIZ "28" FEDERAL # 1 UNIT "D" SECTION 28 T19S-R34E LEA CO. NM

## DRILLING MANUAL





FIGURE K6-1. The schematic sketch of an accumulator system shows required and optional components.



FL 2003 FL ED Hobbs OCD

FIGURE K4-2. Typical choke manifold assembly for 5M rated working pressure service — surface installation.

EXHIBIT "E-1"								
CHOKE	MANII	FOLD	å	CLOS	SING	UNIT		
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LEA CO. NM

T19S-R34E

RECEIVED

STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS JAN 24 AM 9:51

BUREAUCHL AKAN. SWELLO FICE

**OPERATOR NAME:** 

CONCHO OIL & GAS CORP.

ADDRESS;

110 WEST LOUISIANA SUITE 410

CITY, STATE, & ZIP: MIDLAND, TEXAS 79701

The above operator accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below.

Lease No:

NM-056376

Well name:

CODORNIZ "28" FEDERAL # 1

Legal Description of land:

NW/4 of section 28 T19S-R34E Lea Co. NM

Bond coverage: BLANKET

B.L.M. Bond File No.: NM-27279

1003 ED Hobbs 0CD Authorized Signature Joe T. Janica/ auce Title: ACENT

Date: 01/23/03