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(July 1992)		STATES		a contre	instructions on	OMB NO. 10	04-0136
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	BUREAU OF LAM	ND MANAGEME	INT			NM 8615	
	ATION FOR PEF	RMIT TO DF	RILL C	OR DEEPEN	······	6. IF INDIAN, ALLOTTEE OF	R TRIBE NAME
A. TYPE OF WORK DI b. TYPE OF WELL	RILLX	DEEPEN				7. UNIT AGREEMENT NAM	
OIL M	GAS OTHER					8. FARM OR LEASE NAME, Tomcat '21' Fed	
CONCHO RESOUI							5103
110 W. LOUISIANA	A STE 410; MIDLAND T	x 79701 🔇	OPER.	OGRID NO.	166/11	10. FIELD AND POOL, OR V	VILDCAT
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	& 660' FNL, SEC. 21, T-	23S, R-32E	200L	CODE <u>538</u>	25	11. SEC., T., R., M., OR BLK AND SURVEY OR AREA	
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LOCATION TO NEAREST PROPERTY OR LEASE LIN (Also to nearest drig. unit line	IE, FT e, if any)	660'		1020	TO THI	s well 40	
. DISTANCE FROM PROPOS	SED LOCATION*		19. PRC	POSED DEPTH	20. ROTAR	Y OR CABLE TOOLS	· · · · · · · · · · · · · · · · · · ·
TO NEAREST WELL, DRILL OR APPLIED FOR, ON THIS	S LEASE, FT.	1320'		9,100'		ROTARY	······································
. ELEVATIONS (Show wheth 3672' GR	er DF, RT, GR, etc.)					22. APPROX. DATE WORK	WILL START*
).		PROPOSED CA	SING ANI	D CEMENTING PROG	RAM		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	FOOT	SETTING DEPTH		QUANTITY OF CEMEN	IT
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17-1/2"	H-40, 13-3/8"	48		12.00 -000-	WITNESS	650 SX; CIRC TO 5	SURF
<u> </u>	J-55/S-80, 8-5/8" K55/N80, 5-1/2"	<u>32</u> 17		4800' 9100'		1300 SX; CIRC TO 900 sx; Est.	
 Drill 17-1/2" hole to % CaCl. Circ to sur Drill 12-1/4" hole to Class 'C' + 2% Cacl. Drill 7-7/8" hole to 	o 4800'. Run & set 4800	of 13-3/8", H-40,)' of 8-5/8", J-55 of 5-1/2", K-55/	48#, ST & S-80,	&C csg. Cmt w/ 4 32#, ST&C csg.(Cmt w/ 1100 sx	s Class 'C' light & tail i	n w/ 200 sxs
OL II · additives.						ROVAL SUBJEC	T TO
	us approved on Jan 25,		·			NERAL REQUIRE	
CARL	SBAD CONTROL	LED WATE	R BAS	IN		-ŋ	
epen directionally, give p	IBE PROGRAM: If proposal is ertinent data on subsurface lo	s to deepen, give da ocations and measu	ata on pres ured and tr	sent productive zone a ue vertical depths. Giv	nd proposed new e blowout prevent	productive zone. If proposa er program, if any.	is to drill or
	Mitch	Ti	TLE Pro	duction Analyst		DATE 05/03/00)
(This space for Federal o							
	· · · · · · · · · · · · · · · · · · ·			APPROVAL DATE			
		st holds legal or equitat	ble title to th		ase which would entit	tie the applicant to conduct opera	ations thereon /
Application approval does no	t warrant or certify that the applican LL, IF ANY:	ar noids legal of equival					//
Application approval does no CONDITIONS OF APPROVA	ARRY D. BRAY		:	Assistant Fie	d Managa	r, JUL 18	li
CONDITIONS OF APPROVA	AL, IF ANY:	TITLE			d Managa		ĺ.

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DISTRICT 1-P.O. Box 1980, Hobbs, NM 88240

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

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Instruction on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

D AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Sand Duhes;	Pool Name	
30025- 34566-3	5103 53805	Bone Spring	B. Sauth	
Property Code 24225		^{°operty Name} 21" FEDERAL		Well Number 4
ogrid no.	o _p	erator Name		Elevation
166111	Concho Resources Inc	•		3672'

Surface Location

VL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	21	23 S	32 E		660	NORTH	660	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation (Code Or	der No.	<u> </u>	<u>I</u>	<u> </u>	
40				Ĺ					

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

		······	·····	······
1 0	Ş			OPERATOR CERTIFICATION
3666.2' 2 3672.4'				I hereby certify the the information
			1	contained herein is true and complete to the
-660° 1 -⇒⊙ I				best of my knowledge and belief.
			1	
3674.1' 3672.4'			1	
				Cost Janing
		1		
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	i ·			Joe T. Janica
	1			Printed Name
	1			Agent
1				Title
	ł		1	03/17/97
				Date
	1			Date
	1			
	Į			SURVEYOR CERTIFICATION
	1			
	1		l j	I hereby certify that the well location shown
	1			on this plat was plotted from field notes of
	5		· •	actual surveys made by me or under my
4	1.			supervison, and that the same is true and correct to the best of my belver.
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				March 2 AR927 Jours
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	с Н			Date Surveyed Signature & Scal Opt W MEXIC Professional Surveyor
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SECTION 21, LEA COUNTY,	TU INSHIP 23 SOUTH,	RANGE 2_ EA	AST, N.M.P.M., NEW MEXICO	,
<i>3666.2'</i>	400'		3672.4'	
	100' Noi Offset PENWELL ENE TOMCAT *21" FEL Elev. – 30 100' West	RGY INC. DERAL #4	400,	
400	Offset	Offset Prope	osed Road	
3674.1'	400	· · · · · · · · · · · · · · · · · · ·	J 3672.4'	
	1	00 0	100	200 Feet
	REF: THE	Concho R Tomcat "21" Federal TOMCAT "21" FEDERAL NORTH LINE AND 660	. No. 4 LOCATED 66	PAD TOPO
	vn By: KJG	ECTION 21, TOWNSHIP		32 EAST. 0.

Application to Drill

Concho Resources Inc. Tomcat "21" Federal No. 4 UL: D; Sec. 21, T-23S, R-32E Lea County, NM

In response to questions asked under Section IIB of Bulletin NTL-6 the following information is provided for your consideration:

- 1. Location: 660' FNL & 660' FWL, Sec. 21, T-23S, R-32E, Lea County, NM
- 2. Elevation Above Sea Level: 3672' GR
- 3. Geologic Name of Surface Formation: Quaternery Aeolian Deposits
- 4. <u>Drilling Tools and Associated Equipment:</u> Conventional rotary drilling rig using fluid as a circulating medium for solids removal.
- 5. Proposed Drilling Depth: 9,100'
- 6. <u>Estimated Tops of Geological Markers:</u> Delaware 4900' Bone Spring 8700'
- 7. <u>Possible Mineral Bearing Formation:</u> Delaware Oil Bone Spring Oil
- 8. <u>Casing Program:</u>

,

Hole Sz	Interval	OD Csg	Weight	Thread	Collar	Grade	Condition
25"	0-40'	20"	Cond.	NA	NA	NA	New
17-1/2"	0-600'	13-3/8"	48#	8-R	ST&C	H-40	New
12-1/4"	0-4800'	8-5/8"	32#	8-R	ST&C	J-55/S-80	New
7-7-8"	0-9100'	5-1/2"	17#	8-R	LT&C	K-55/N-80	0 New

9. <u>Cementing & Setting Depth:</u>

20"	Conductor	Drill 25" hole to 40'. Set 40' of 20" conductor.
		Cement to surface with Redi-mix.
13-3/8"	Surface	Drill 17-1/2" hole to 600'. Run & set 600' of 13-3/8",
		48#, H-40, ST&C casing. Cement with 400 sacks
		Class "C" Light, tail in with 250 sacks Class "C" + 2%
		CaCI. Circulate cmt to surfrace.
8-5/8"	Intermediate	Drill 12-1/4" hole to 4800'. Run & set 4800' of 8-5/8",
		J-55, 32# ST&C casing. Cement with 1100
		sacks Class "C" Light, tail in with 200 sacks Class
		"C" + 2% CaCl. Circulate cmt to surface.
5-1/2"	Production	Drill 7-7/8" hole to 9100'. Run & set 9100' of 5-1/2",
		17#, K-55/N-80, LT & C casing. Cement with 500
		sacks Class "H" Light, tail in with 400 sacks 50/50
		POZ "H" + additives. Estimated top of cement –
		4500'.

Application to Drill

Concho Resources Inc. Tomcat "21" Federal No. 4 UL: D; Sec. 21, T-23S, R-32E Lea County, NM

10. <u>Pressure Control Equipment:</u> Exhibit "E". A 900 Series 3000 psi working pressure BOP consisting of a double ram type preventor with a bag type annular preventor. BOP unit will be hydraulically operated. Exhibit "E-1". Choke manifold and closing unit. BOP will be nippled up on 13-3/8" casing and will be operated at least once each 24 hour period while drilling and blind rams will be operated when out of hole during trips. Flow sensor, PVT, full opening stabbing valve and upper kelly cock will be utilized. No abnormal pressure or temperature is expected while drilling.

11. Proposed Mud Circulating System:

Depth	Mud Wt.	Visc.	Fluid Loss	Type Mud
40-600'	8.6-9.0	29 - 36	NC	Fresh Water spud mud add paper for seepage control.
600-4800'	10-10.3	29 - 32	NC	Brine water add Lime for pH control & paper for seepage.
4800-9100'	8.8-9.0	29 - 33	NC	Cut brine & starch for water loss control.

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

- 12. Testing, Logging and Coring Program:
 - A. Gamma Ray from TD to surface, Caliper from TD to 8-5/8" casing shoe.
 - B. CNL LDT, AIT, MSFL Caliper from TD to 8-5/8" casing shoe.
 - C. Mud logger on from 4800' to TD.
- 13. Potential Hazards:

No abnormal pressures or temperatures are expected. Hydrogen Sulfide (H2S) Gas may be encountered. H2S detectors will be in place to detect any presence. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operations of equipment being used. Estimated BHP 3500 PSI, estimated BHT 130°.

14. Anticipated Starting Date and Duration of Operations:

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 16-18 days. If production casing is run an additional 15 days will be required to complete and construct surface facilities.

15. Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from TD over possible pay intervals. The Bone Spring pay will be perforated and stimulated. The well will be swab tested and potentialed as an oil well.

Hydrogen Sulfide Drilling Operations Plan

Concho Resources Inc. Tomcat "21" Federal No. 4 UL: D; Sec. 21, T-23S, R-32E Lea County, NM

- 1. All Company and Contract personnel admitted on location must be trained by a gualified H2S safety instructor to the following:
 - A. Characteristics of H2S
 - B. Physical effects and hazards
 - C. Proper use of safety equipment and life support systems
 - D. Principle and operation of H2S detectors, warning systems and briefing areas.
 - E. Evacuation procedure, routes and first aid
 - F. Proper use of 30 minute pressure demand air pack
- 2. H2S Detection and Alarm Systems
 - A. H2S detectors and audio alarm system to be located at bell nipple end of blooey line (mud pit) and on derrick floor or doghouse.
- 3. Windsock and/or Wind Streamers
 - A. Windsock at mud pit 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
 - Flags to be displayed on sign at entrance to location. Green flag normal safe condition. Yellow flag – indicating potential pressure and danger. Red Flag – danger – H2S present in dangerous concentration. Only emergency personnel admitted on location.
- 5. Well Control Equipment See Exhibit "E"
- 6. Communication
 - A. While working under masks chalkboards will be used for communication.
 - B. Hand signals will be used where chalkboard is inappropriate.
 - C. Two way radio will be used to communicate off location in case emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.
- 7. Drill Stem Testing
 - A. All testing will be done in the daylight hours.
 - B. Exhausts will be watered.
 - C. Flare line will be equipped with an electric ignitor or a propane pilot light in case gas reaches the surface.
 - D. If location is near any dwelling a closed DST will be performed.

Hydrogen Sulfide Drilling Operations Plan

Concho Resources Inc. Tomcat "21" Federal No. 4 UL: D; Sec. 21, T-23S, R-32E Lea County, NM

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

Concho Resources Inc. Tomcat "21" Federal No. 4 UL: D; Sec. 21, T-23S, R-32E Lea County, NM

- 1. EXISTING ROADS: Area map, Exhibit "B" is a reproduction of the New Mexico General Highway Co. map. Exhibit "C" is a reproduction of a USGS Topographic map. All existing roads and proposed roads are shown on each exhibit. All 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 development well as staked.
 - B. From Eunice New Mexico take State Highway 18 South 2.5 miles to Delaware Basin Rd (CR-21) go 32.6 miles to State Highway 128 turn West, go 13.2 miles to Lea-Eddy County Line and turn Northeast on pipeline road, go 3.7 miles turn Northwest and go .65 miles to Yates well bear North 1 mile turn West, go .25 miles to location.
 - C. Lay 3" polyethylene pipeline to transport produced fluids to a common tank battery. Construct a 1250 KV electric power line along road ROW in order to produce oil and gas from this well.
- 2. PLANNED ACCESS ROADS: Approximately 1320' of new road will be constructed.
 - A. The access road will be crowned and ditched to a 12' 00" wide travel surface with 40' of ROW.
 - B. Gradient on all roads will be less than 5.00%.
 - C. No turnouts will be necessary.
 - D. If needed, road will be surfaced with a minimum of 4" caliche. This material will be obtained from a local source.
 - E. Centerline for the new access road has been flagged. Earthwork will be as required by field conditions.
 - F. Culverts in the access road will not be used. The road will be constructed to utilize low water crossings for drainage as required by the Lopography.
- 3. LOCATION OF EXISTING WELLS IN A ONE MILE RADI US EXHIBIT "A-1"
 - A. Water Wells Exhibit C
 - B. Disposal Wells None known
 - C. Drilling Wells Exhibit C
 - D. Producing Wells Exhibit "A-1"
 - E. Abandoned Wells Exhibit "A-1"
- 4. If upon completion this well is a producer, Concho Resources Inc. will furnish maps and/or plats showing on site facilities or off site facilities if needed. This will be accompanied with a Sundry notice.
- 5. LOCATION AND TYPE OF WATER SUPPLY Water will be purchased locally from a private source and trucked over the access roads or piped in flexible lines laid on top of the ground.

Page 4

Concho Resources Inc. Tomcat "21" Federal No. 4 UL: D; Sec. 21, T-23S, R-32E Lea County, NM

6. SOURCE OF CONSTRUCTION MATERIALS If needed, construction materials will be obtained from the drill site's excavations or from a local source. These materials will be transported over the access route as shown on Exhibit "A".

7. METHODS FOR HANDLING WASTE DISPOAL

- 1. Drill cuttings will be disposed of in the reserve pit.
 - 2. Trash, waste paper, and garbage will either be contained in a fenced trash trailer or a trash pit, fenced with mesh wire to prevent wind scattering during storage. When the rig moves out, all trash and debris left at the site will be contained to prevent scattering and will be buried at least 36" deep within a reasonable period of time.
 - 3. Salts remaining after completion of the well and broken sacks will be picked up by the supplier.
 - 4. Sewage from trailer house will drain into holes with a minimum depth of 10' 00". These holes will be covered during drilling and backfilled upon completion. A "porta potty" will be provided for the rig crews. This will be properly maintained during the drilling operations and removed upon completion of the well.
- B. Remaining drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry enough for backfilling. In the event drilling fluids will not evaporate in a reasonable period of time they will be transported by tank truck to a state approved disposal site.

Water produced during testing of the well will be disposed of in the reserve pit. Oil produced during testing of the well will be stored in test tanks until sold and hauled from the site.

- 8. ANCILLARY FACILITIES No camps or airstrips will be constructed.
- 9. WELL SITE LAYOUT

Α.

- A. Exhibit "D" shows location and rig layout.
- B. Exhibit "D" indicates proposed location of reserve and trash pits; and living facilities.
- C. Pit is proposed to be unlined, unless subsurface conditions encountered using pit construction indicate that lining is needed for lateral containment of fluids.
 - 1. If lining of reserve pit is needed it is to be lined with PVC or polyethylene. The pit liner will be 6 mils thick. Pit liners will extend a minimum 2' 00" over the reserve pit dikes, where the liner will be anchored down.

Concho Resources Inc. Tomcat "21" Federal No. 4 UL: D; Sec. 21, T-23S, R-32E Lea County, NM

D. 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 of 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 been be leveled and contoured to conform to the original and surrounding area. Drainage systems, if any, will be reshaped to the original configuration with previsions 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. Top soil 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.

11. OTHER INFORMATION:

- A. Topography, as shown on topographic map consists of sand dunes with a Westerly dip toward the Pecos River. The surface is used mainly for live stock grazing and access to Oil & Gas production. Surface vegetation consists of native grasses, shinnery oak, mesquite, sandsage and snake weed.
- B. The surface is owned by the Department of Interior, Bureau of Land Management.
- C. An archeological survey has been conducted of the location and road. This was submitted separately to the BLM upon completion.
- D. There are no dwellings within 2 miles of this location.

Concho Resources Inc. Tomcat "21" Federal No. 4 UL: D; Sec. 21, T-23S, R-32E Lea County, NM

- 12. OPERATORS REPRESENTATIVES: Concho Resources Inc. 110 W. Louisiana, Suite 410 Midland, Tx 79701 (915) 683-7443 Mr. Joe Wright Mr. Jim Blount
- 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 Concho Resources Inc., its contractors/subcontractors is in the conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provision of USC 1001 for the filing of a false statement.

(applient	Engineer	5/3/00
boe Wright	Title	Date

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EXHIBIT "C" Topographic Map Showing Directions & Roads to: CONCHO RESOURCES INC. TOMCAT '21' FEDERAL #4 UL: D, SEC 21, T-23S, R-32E LEA CO., NEW MEXICO



- Wind Direction Indicators (wind sock or streamers)
- △ H2S Monitors (alarms at bell nipple and shale shaker)
- Briefing Areas
- Remote BOP Closing Unit
- □ Sign and Condition Flags

EXHIBIT "D" RIG LAY OUT PLAT CONCHO RESOURCES INC. TOMCAT '21' FEDERAL #4 UL: D, SEC 21, T-23S, R-32E LEA CO., NEW MEXICO



ARRANGEMENT SRRA

900 Series 3000# Working Pressure

> EXHIBIT "E" BOP SKETCH TO BE USED ON: CONCHO RESOURCES INC. TOMCAT '21' FEDERAL #4 UL: D, SEC 21, T-23S, R-32E LEA CO., NEW MEXICO







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lators

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



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

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ĚXHIBIT "E-1" **CHOKE MANIFOLD & CLOSING UNIT** CONCHO RESOURCES INC. TOMCAT '21' FEDERAL #4 UL: D, SEC 21, T-23S, R-32E LEA CO., NEW MEXICO

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WILL BE RELEASED CONFIDENTIAL LOGS **INDICATE WHEN** TON SECO ETAG EVORA EFE -