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Form 3160-3 (July 1992)	UNITED DEPARTMENT O BUREAU OF LAN	୨ନ୍ଦ୍ୟେକ୍ତ STA କର୍ପ୍ତାର F Th P MA ଜନ୍ମ ହଂ	TE 12/4	227	ATE* 3 on	FORM APPR OMB NO. 100 Expires: February 5. LEASE DESIGNATION AND LC 069276	4-0136 7 28, 1995 D SERIAL NO.	
APPLIC	ATION FOR PER	MIT MOL	30-025-	22 70	<u>v</u>	6. IF INDIAN, ALLOTTEE OR	I KIBE NAME	
1a. TYPE OF WORK		DEEPEN				7. UNIT AGREEMENT NAME	······	
WELL	WELL GAS GAS OTHER SINGLE MULTIPLE 8. FARM OR LEASE NAME, WELL NO.							
2. NAME OF OPERATOR Concho Resources						West Corbin '19' Fed 9. API WELL NO. 30025- <del>3400</del>	735286	
3. ADDRESS AND TELEPHON 110 W. Louisiana S	E №. ite 410; Midland, Tx 797	01 (915) 683-7	443			10. FIELD AND POOL, OR WILDCAT		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)       Corbin Bone Spring South         At surface       330' FWL & 990' FSL         At proposed prod. zone       M         M       M         At proposed prod. zone       M         M       M     <						R-33E		
	DIRECTION FROM NEAREST TO HODDS, NM	WN OR POST OFFICE	*			12. COUNTY OR PARISH Lea	13. STATE NM	
15. DISTANCE FROM PROPO	SED*	330'	16. NO. OF ACRES IN LEAS 520		TO THIS	40		
18. DISTANCE FROM PROPO	SED LOCATION* ING. COMPLETED.	750'	19. PROPOSED DEPTH 10750'	50-	20. RUTAR	Rotary		
21. ELEVATIONS (Show wheth 3787' GR				)		22. APPROX. DATE WORK	WILL START*	
23.		PROPOSED CA	SING AND CEMENTING P	ROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER F	OOT SETTING DE	ЕРТН		QUANTITY OF CEMEN	IT	
25"	20" cond	NA	40'			Cmt to surf w/ Red		
17-1/2"	13-3/8" H-40	48	450'			400 sx C - Circ to surf		
12-1/4"	8-5/8 J-55 5-1/2" N-80	32						
Same 14. DISTANCE IN MILES AND 35 miles West from 15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE LIN (Also to nearest drig. unit lind 18. DISTANCE FROM PROPO TO NEAREST WELL, DRILL OR APPLIED FOR, ON THI 21. ELEVATIONS (Show wheth 3787' GR 23. SIZE OF HOLE 25" 17-1/2"	Hobbs, NM SED* E, FT J; fany) SED LOCATION* ING, COMPLETED, S LEASE, FT. WE DF, RT, GR, etc.) GRADE, SIZE OF CASING 20" cond 13-3/8" H-40	330' 750' PROPOSED CA: WEIGHT PER F NA 48 32	16. NO. OF ACRES IN LEAS           520           19. PROPOSED DEPTH           10450'           SING AND CEMENTING P           OOT           SETTING DE           40'           450'           2850	,50 ROGRAM	TO THIS 20. ROTAR	12. COUNTY OR PARISH Lea ACRES ASSIGNED S WELL 40 Y OR CABLE TOOLS Rotary 22. APPROX. DATE WORK QUANTITY OF CEMEN Crnt to surf w/ Red 400 sx C - Circ to 1000 sx C - Circ to	13. STATE NM WILL START*	

Concho Resources Inc. respectfully requests approval to drill the West Corbin '19' Federal No. 6 according to the following procedure:

- 1. Drill 25" hole to 40'. RIH w/ 20" conductor & cmt to surface w/ Redi-mix.
- 2. Drill 17-1/2" hole to 450'. RIH w/ 13-3/8", 48#, H-40, ST&C casing & set @ 450'. Cmt w/ 400 sx Class C cmt + 3% CaCl.
- Circ cmt to surface. 3. Drill 12-1/4" hole to 2850'. RIH w/ 8-5/8", 32#, J-55, ST&C casing & set @ 2850'. Cmt w/ 700 sx C Lite + 300 sx Class C neat
- + 2% CaCl. Circ cmt to surf. 4. Drill 7-7/8" hole to 10,150'. RIH w/ 5-1/2", 17#, N-80, LT&C casing & set @ 10150'. Cmt w/ 1st stage: 400 sx Class H cmt + additives; DV tool @ 6800'; cmt 2nd stage: 400 sx Class C light + additives; tail w/ 200 sx Class C + additives. Est TOC @ 2650'.

APD previously approved on 6/4/97.

IN ABOVE SPACE DESCRIBE PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

signed Alltathem	TITLE Production Analyst	DATE 09/14/00
(This space for Federal or State office use)	APPROVAL DATE	
PERMIT NO		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY:

	RARRY D. BRAY	TITLE	Assistant Field Manager, Lands And Minerals		007 1 8 2000
APPROVED BY		*See Instructions	s On Reverse Side		APPROVED FOR 1 YEAF
Title 18 U.S.C	Section 1001, makes it a crime	e for any person kr	nowingly and willfully to make to any	departr	nent or agency of the

Listed States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

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

DISTRICT III 1000 Rio Brazos Rd., Aztec, NN 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

	Number	591-	Pool Code 13160			I vot couc			Pool Name CORBIN BONE SPRING SOUTH				
30025-34007 35286 13160 CORBIN BONE SPRING SOUTH Property Code Property Name						Well Nu	unber						
		West Corbin "19" Federal						6					
0GRID No						ator Nam			Elevation				
166111		Con	ncho Res	ources	Inc.				378	7'			
					Surfa	ce Loc	ation						
UL or lot No.	Section	Township	Range	Lot Idn	Feet fre	om the	North/South line	Feet from the	Bast/West line	County			
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		L	L	Hole Lo	cation 1	lf Diffe	erent From Sur	face		·			
UL or lot No.	Section	Township	Range	Lot Idn	Feet fro		North/South line	Feet from the	Bast/West line	County			
				l									
Dedicated Acres	9 Joint o	or Infill Co	nsolidation	Code 0	rder No.								
40			<u></u>					·					
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WEST CORBIN "19" FEDERAL No. 6 990' FSL & 330' FWL Sec. 19, T-18-S, R-33-E, Lea County, New Mexico.

SCALE: 1"=2000"

BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

2000'	0	2000'	4000 Feet
EHB			

## **Application to Drill**

#### Concho Resources Inc. West Corbin '19' Federal #6 UL: M; Sec. 19, T-18S, R-33E Lea County, NM

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

- 1. Location: 990' FSL & 330' FWL, Sec. 19, T-18S, R-33E, Lea County, NM
- 2. Elevation Above Sea Level: 3787' GR
- 3. Geologic Name of Surface Formation: Quaternary 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: 10,150'
- 6. <u>Estimated Tops of Geological Markers:</u> Rustler Anhydrite 1250' Yates 2850' Seven Rivers 3340' Queen 3790' San Andres 4860' Bone Spring 8660'
- 7. Possible Mineral Bearing Formation:

Yates – Oil Queen 7 Rivers – Oil Bone Spring - Oil

#### 8. Casing Program:

Hole Sz	Interval	OD Csa	Weight	Thread	Collar	Grade	<u>Condition</u>
25"	0-40'	20"	Cond.	NA	NA	NA	New
	0-450'1325	1 = -	48#	8-R	ST&C	H-40	New
12-1/4"	0-2850'	8-5/8"	32#	8-R	ST&C	J-55	New
7-7/8"	0-10150'	5-1/2"	17#	8-R	LT&C	K-55/N-8	) New

#### 9. Cementing & Setting Depth:

20"	Conductor	Drill 25" hole to 40'. Set 40' of 20" conductor. Cement to surface with Redi-mix. 1335' $1335'$
13-3/8"	Surface	Drill 17-1/2" hole to 450. Run & set 450 <sup>.</sup> of 13-3/8", 48#, H-40, ST&C casing. Cement with 400 sacks Class "C" + 3% CaCl . Circulate cmt to surface.
8-5/8"	Intermediate	Drill 12-1/4" hole to 2850'. Run & set 2850' of 8-5/8", J-55, 32 ST&C casing. Cement with 700 sacks Class "C" light,, tail in with 300 sacks Class "C" + 3% CaCl. Circulate cmt to surface.
5-1/2"	Production	Drill 7-7/8" hole to 10150'. Run & set 10150' of 5-1/2", 17#, N-80, LT & C casing. Cement in 2 stages. 1 <sup>st</sup> Stage w/ 400 sacks Class "H" + additives, 2 <sup>nd</sup> stage w/ 400 sacks Class "C" Light + additives; tail in w/ 200 sx Clss C + additives. Estimated top of cement – 2650'.

- 10. Pressure Control Equipment: Exhibit "E" A 1580 Series 5000 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 upon 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.
- Proposed Mud Circulating System: 11. Type Mud Fluid Loss Visc. Mud Wt. Depth Fresh water spud mud 28 - 40 NC 8.6-9.0 0-450' 1325 add paper for seepage control. 1375' Brine water add Lime for pH NC 28 - 32 460-2850' 10-10.5 control & paper for seepage. Cut Brine & lime for pH NC 8.8-9.5 28 – 32 2850-9800' control. Cut brine soda ash Drispac 34-40 10 cc or less 9-9.8 9800-10150' & gel & starch for water loss control.

Sufficient mud materials will be kept on location at all times in order to combat loss circulation, unexpected kicks. In order to run DST's, 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:

construct surface facilities.

- A. Open hole logs: Gamma Ray, Caliper, Dual Laterolog, CNL, LDT, MSFL from TD to 2850'. GR, Neutron from TD to surface.
- B. No coring or DST's planned at this time.
- 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 operation of equipment being used. Estimated BHP 3000 PSI, estimated BHT 175°.

- 14. <u>Anticipated Starting Date and Duration of Operations:</u> Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 22-28 days. If production casing is run an additional 15 days will be required to complete and
- 15. <u>Other Facets of Operations:</u> After running casing, cased hole gamma ray neutron 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. West Corbin '19' Federal #6 UL: M; Sec. 19, T-18S, R-33E Lea County, NM

- 1. All Company and Contract personnel admitted on location must be trained by a qualified 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
  - B. 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. West Corbin '19' Federal #6 UL: M; Sec. 19, T-18S, R-33E 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.

## Surface Use Plan

#### Concho Resources Inc. West Corbin '19' Federal #6 UL: M; Sec. 19, T-18S, R-33E 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 Hobbs New Mexico take U.S. Highway for 15 miles to Junction of 62-180 and State Highway 529, bear right and follow 529 for 20 miles to milepost 11; turn South follow caliche road for 4.6 miles turn left (East) go .25 miles turn right (South) go .75 miles to location on West side of road.
  - 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 right of way.
  - B. Gradient of all roads will be less than 5%
  - 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 RADIUS EXHIBIT "A-1"
  - A. Water Wells None known
  - B. Disposal Wells None known
  - C. Drilling Wells None known
  - D. Producing Wells Exhibit "A-1"
  - E. Abandoned Wells None known
- 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.

## Surface Use Plan Concho Resources Inc. West Corbin '19' Federal #6 UL: M; Sec. 19, T-18S, R-33E 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

- A. 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
  - 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.

## Surface Use Plan Concho Resources Inc. West Corbin '19' Federal #6 UL: M; Sec. 19, T-18S, R-33E 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.

## Surface Use Plan

Concho Resources Inc. West Corbin '19' Federal #6 UL: M; Sec. 19, T-18S, R-33E Lea County, NM

12. OPERATORS REPRESENTATIVES: Concho Resources Inc. 110 W. Louisiana, Suite 410 Midland, Tx 79701 (915) 683-7443 Mr. Joe Wright Mr. Eric Nelson

#### 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.

10.2	Sr. Operations Engineer	5/2/00
Eric Nelson	Title	Date

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- $\frown$  Wind Direction Indicators (wind sock or streamers)
- △ H2S Monitors (alarms at bell nipple and shale shaker)
- Briefing Areas

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- Remote BOP Closing Unit
- □ Sign and Condition Flags

EXHIBIT "D" RIG LAY OUT PLAT CONCHO RESOURCES INC. West Corbin '19' Federal #6 UL: M; Sec 19, T-18S, R-33E LEA CO., NEW MEXICO



# ARRANGEMENT SRRA

1500 Series 5000# Working Pressure

> EXHIBIT "E" BOP SKETCH TO BE USED ON: CONCHO RESOURCES INC. West Corbin '19' Federal #6 UL: M; Sec 19, T-18S, R-33E LEA CO., NEW MEXICO









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

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EXHIBIT "E-1" CHOKE MANIFOLD & CLOSING UNIT CONCHO RESOURCES INC. West Corbin '19' Federal #6 UL: M; Sec 19, T-18S, R-33E LEA CO., NEW MEXICO

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