

District I
PO Box 1980, Hobbs, NM 88241-1980

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 & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-101

Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 6 Copies

Fee Lease - 5 Copies

* ☒ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1Operator Name and Address Concho Resources Inc. 110 W. Louisiana, Ste 410 Midland, Tx 79701 (915) 683-7443		2OGRID Number 166111
		3API Number 30 - 025-34577
4Property Code 24294	5Property Name Caballo "9" State	6Well No. 1

7Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West Line	County
E	9	23S	34E		1650	North	660	West	Lea

8Proposed 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
E	9	23S	34E		1650	North	660	West	Lea
9Proposed Pool 1 North Bell Lake - Morrow					10Proposed Pool 2				

11Work Type Code N	12Well Type Code	13Cable/Rotary R	14Lease Type Code S	15Ground Level Elevation 3419
16Multiple No	17Proposed Depth 13700	18Formation Morrow	19Contractor Unknown	20Spud Date

21Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
26	20	94	750	1500	surf
17-1/2	13-3/8	61	2250	1495	surf
12-1/4	9-5/8	40	5200	1025	2000
8-1/2	7	26	11800	1860	5000
6-1/8	4-1/2	13.5	13700	245	11300

22Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Please amend the permit to show Concho Resources Inc. as the operator of the above well. No other changes have been made to the drilling program. Please find attached a copy of the drilling program submitted to you on February 17, 1999.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway
~~Re entry~~ Amended
Drilling *

23I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:

Terri Stathem

Title:

Production Analyst

Date:

03-05-99

Phone:

915-683-7443

OIL CONSERVATION DIVISION

Approved By: ~~Original~~ ~~Signature~~ ~~of~~ ~~Chris~~ ~~William~~ ~~Mc~~

Title:

Approval Date:

MAR 09 1999

Expiration Date:

Conditions of Approval:

Attached: ☐

GENERAL DRILLING PROGRAM- Attachment to Form C-101

Caballo "9" #1

1650' FNL 660' FWL Section 9-T23S-R34E
Lea County, New Mexico

Elevation: 3419' GR

Proposed Total Depth: 13,700'

Estimated Formation Tops

Bell Canyon	5280'	Atoka Bank	12,233'
Cherry Canyon	5886'	Morrow	12,681'
Brushy Canyon	7387'	Morrow Clastics	12,920'
Bone Spring	8600'	Gaucha Pay	12,935'
2 nd Bone Spring	10,178'	Middle Morrow	12,986'
3 rd Bone Spring	11,088'	Middle Morrow A	13,040'
Wolfcamp	11,440'	Middle Morrow C	13,203'
Strawn	11,853'	Lower Morrow	13,362'

Casing/Cement Program

<u>Hole Size</u>	<u>Casing Size/Weight/Grade</u>	<u>Setting Depth</u>	<u>Cement</u>	<u>Est. TOC</u>
	30" Conductor pipe	40'	ready mix	surface
26"	20" 94# J-55 Butt	750'	1500 sx 15:85 Poz: Class C + 0.25 pps D29+2% S1+2% D20	surface
17-1/2"	13-3/8" 61# J-55 ST&C	2250'	Lead: 1260 sx 35:65 Poz: Class C + 6% D20+ 0.25 pps D29 Tail: 235 sx Class C+ 2% S1 +0.25 pps D29	surface
12-1/4"	9-5/8" 40# N-80/K-55 LT&C	5200'	Lead: 825 sx 35:65 Poz: Class C + 6% D20+0.25 pps D29 Tail: 200 sx Class C Neat	2000'
8-1/2"	7" 26# S-95 LT&C	11,800'	860 sx 50:50 Poz: Class H + 6% D44 +2% D20+0.4% D59	5000'
6-1/8"	4-1/2" 13.5# P-110 LT&C liner 11,500'-13,700'	13,700'	245 sx Class H+1 gps D600+0.03 gps M45+0.1 gps D801+0.05 gps D604AM	11,300'

Drilling Fluids Program

<u>Depth</u>	<u>Mud Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>	<u>Comments</u>
0-1200'	8.6-9.5	45-150	NC	fresh gel,caustic,paper
1200'-5400'	9.0-9.1	28-29	NC	cut brine water,paper,caustic
5400'-11,700'	8.4-9.2	28-29	NC	fresh water,caustic,paper
11,700'-12,700'	10.0-10.1	28-29	NC	brine water, Star NP-110
12,700'-13,700'	10.0-13.5	36-42	<15 cc	xanthan gum,white starch, caustic,barite

Blowout Prevention Program- Attachment to Form C-101

0'-750'	None
750'-2250'	20" 2000# annular preventer system.
2250'-5200'	13-5/8" 3000# double ram type preventers and a 3000# annular preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Test BOP to 1000 psi.
5200'-11,800'	11" 10,000# triple ram type preventers, 5000# annular preventer and rotating head body. Test BOP to 3000 psi. Install hydraulic drilling choke and mud/gas separator prior to 11,000'.
11,800'-13,700'	11" 10,000# triple ram type preventers, 5000# annular preventer and rotating head body. Test all rams, choke manifold, kill line, upper and lower kelly valves to 10,000 psi. Test annular BOP to 3000 psi.

Any equipment failing to test satisfactorily, will be repaired or replaced. Results of the BOP test will be recorded in the Driller's Log.

The BOP's will be maintained ready for use until drilling operations are completed. BOP drills will be conducted as necessary to assure that equipment is operational and each crew is properly trained to carry out emergency duties.

Accumulator shall maintain a pressure capacity reserve at all times to provide for the close-open-close sequence of the blind and pipe rams of the hydraulic preventers.