



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

8/23/99

GOVERNOR

POST OFFICE BOX 1980  
HOBBS, NEW MEXICO 88241-1980  
(505) 393-6161

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC	
DHC	X
NSL	
NSP	
SWD	
WFX	
PMX	

Gentlemen:

I have examined the application for the:

Concho Resources Inc Caballo 9 State #1-E-9-235-34e  
Operator Lease & Well No. Unit S-T-R 30-025-34577

and my recommendations are as follows:

? Why were offsets not given notice. - Need to attach  
map showing offsetting acreage.

Yours very truly,

*Chris Williams*

Chris Williams  
Supervisor, District 1

/ed

DATE	SUBJECT	ENGINEER	LOGGED	TYPE
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ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

### ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

#### Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]  
 [DD-Directional Drilling] [SD-Simultaneous Dedication]  
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

#### [1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling

☐ NSL ☐ NSP ☐ DD ☐ SD

Check One Only for [B] and [C]

[B] Commingling - Storage - Measurement

☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

#### [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☒ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO

U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

#### [3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Terri Stathem  
Print or Type Name

Signature

Production Analyst  
Title

8-13-99  
Date

# CONCHO RESOURCES INC.

Suite 410

110 W. Louisiana  
Midland, Texas 79701

(915) 683-7443  
FAX 683-7441

August 13, 1999

Mr. David Catanach  
New Mexico Oil Conservation Division  
2040 South Pacheco  
Santa Fe, New Mexico 87505

Mr. Catanach:

Re: Application for Downhole Commingle  
Caballo '9' State No. 1  
Lea County, New Mexico

Concho Resources Inc. hereby requests approval to downhole commingle production from the Strawn and Atoka pools in the Caballo '9' State No. 1 well.

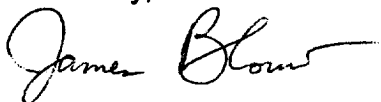
On August 9, 1999 I spoke with you concerning the Caballo '9' State No. 1 well and the problems we would have if we were to isolate the two pools to determine contributing production. The Caballo '9' State No. 1 well was completed open hole from 11,800' to 12,250'. Geological data indicates the top for the Strawn is at 11,740', and the top of the Atoka is at 11,933'.

I mentioned that we ran a temperature survey and that it showed cooling in the Atoka interval from 12,158-68'. We believe this indicates the gas production is coming from the Atoka interval only. Based upon this information Concho Resources Inc. would like approval to allocate 100% of the production to the Atoka pool and 0% of the production to the Strawn pool.

Ownership and working interest for the two zones are common. A C-107A, C-102s, a Temperature Survey with GR and collar locator, a GR-CNL-CDL strip through the open-hole section, a production plot, and a map are attached for your review.

Please feel free to contact me if you have any questions or need any additional information.

Sincerely,



Jim Blount  
Senior Operations Engineer

## DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1080

## State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised February 10, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

## DISTRICT II

P.O. Drawer DD, Artesia, NM 88211-8719

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

## DISTRICT IV

P.O. BOX 2088, SANTA FE, N.M. 87504-2088

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30025-34577	Pool Code 70360	Pool Name Antelope Ridge, ATOKA
Property Code 24294	Property Name CABALLO 9	Well Number 1
OGRID No. 166111	Operator Name Concho Resources Inc.	Elevation 3419

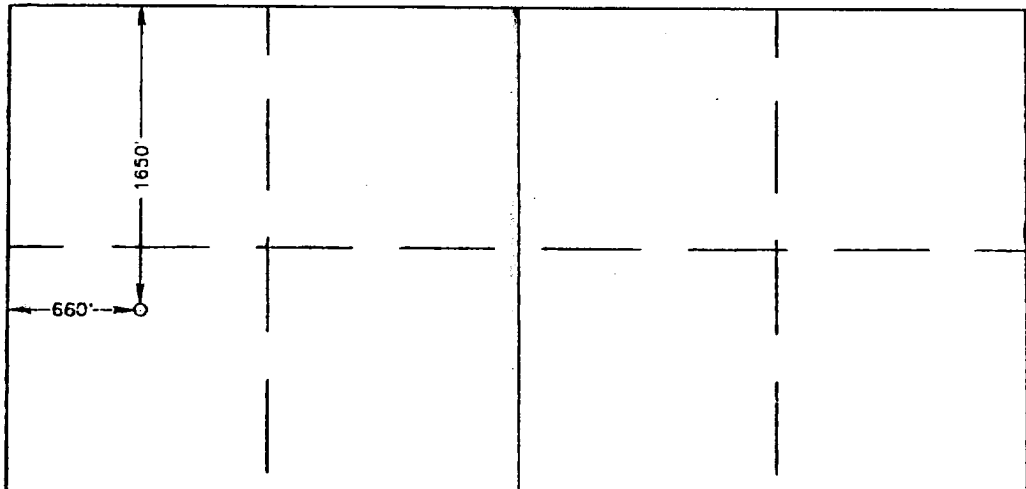
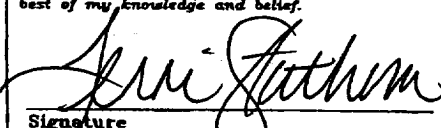

## Surface Location

UL or lot No. E	Section 9	Township 23 S	Range 34 E	Lot Idn	Feet from the 1650	North/South line NORTH	Feet from the 660	East/West line WEST	County LEA
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## 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 320	Joint or Infill	Consolidation Code	Order No.						

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

	<b>OPERATOR CERTIFICATION</b> I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.  Signature Terri Stathem Printed Name Production Analyst Title 3/19/99 Date	
	<b>SURVEYOR CERTIFICATION</b> I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. JANUARY 21, 1999 Date Surveyed Signature  Professional Surveyor NEW MEXICO 322/99 99-11-0064 Certificate No. RONALD E. EIDSON 3239 GARY EIDSON 12641 JAMES McDONALD 12185	

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
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Fee Lease - 3 Copies

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88211-0719

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

DISTRICT IV  
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30025 34577	Pool Code	Pool Name ANTELOPE RIDGE STRAWN
Property Code 24294	Property Name CABALLO 9	Well Number 1
OGRID No. 166111	Or CONCHO RESOURCES INC.	Elevation 3419

Surface Location

UL or lot No. E	Section 9	Township 23 S	Range 34 E	Lot Idn	Feet from the 1650	North/South line NORTH	Feet from the 660	East/West line WEST	County LEA
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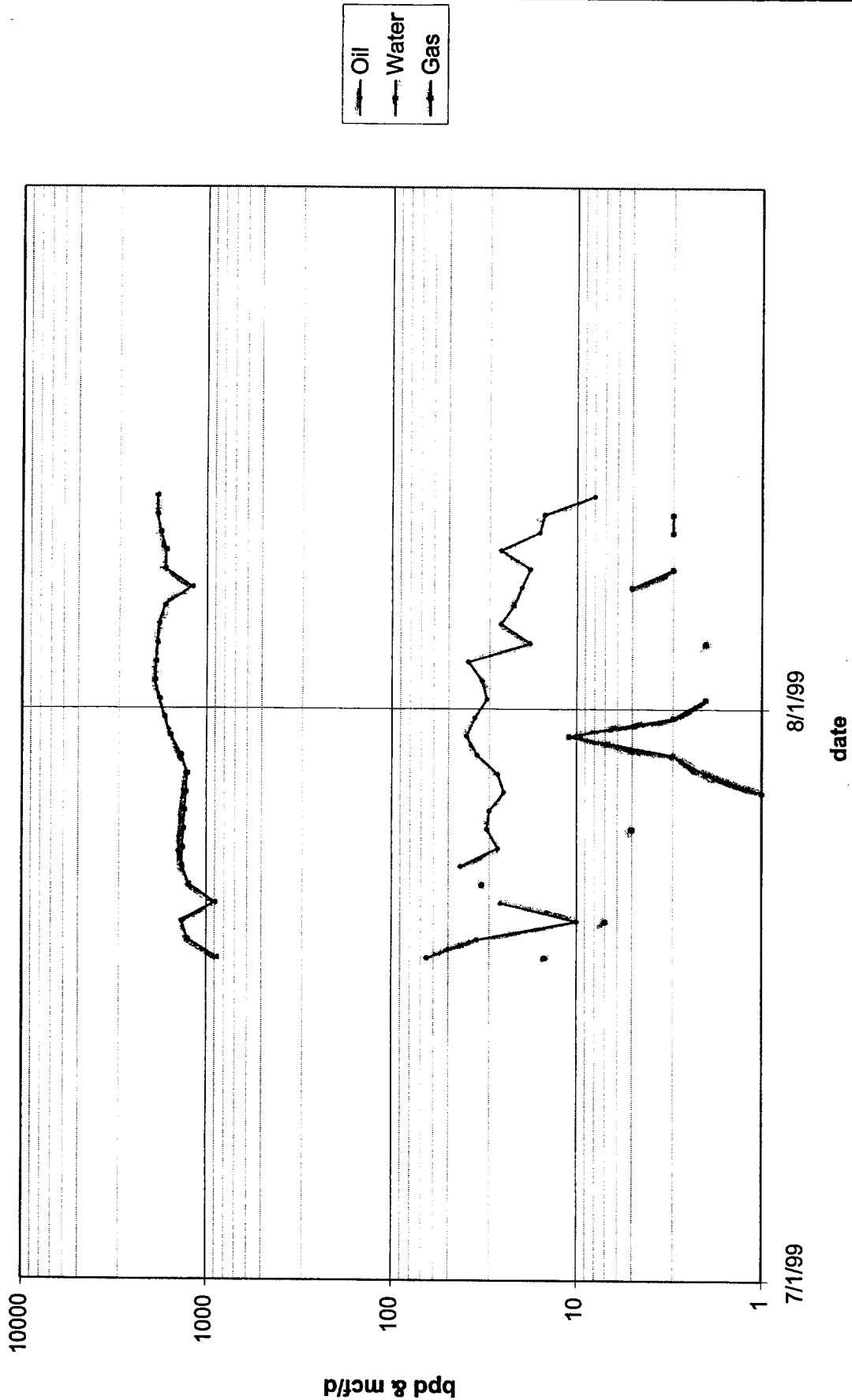
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# Caballo 9 St #1



# PROPOSED LOCATION 1650 FNL & 660 FWL 9E-23S-34E

RSLR 1,180  
CPTN NOT CORRELATED  
BLCN 4,829  
CYCN 5,715  
BYCN 7,043  
BSGL 8,420  
FBSG 9,502  
SBSG 10,007  
TBSG 10,934  
WFMP 11,222  
STRN 11,725  
ATOK 11,910  
ATBK 12,107  
MRRW 12,713  
LMRW 13,292  
MSPL 13,834

NO GDS DATA  
D&A - NO LOGS RELEASED

LMAR 4,942  
BLCN 5,061  
CYCN 5,805  
BYCN 7,140  
BSGL 8,472  
FBSG 9,590  
SBSG 10,078  
TBSG 11,030  
WFMP 11,370  
STRN 11,903  
ATOK 12,130  
ATBK 12,225

LMAR 4,920  
RSLR NO LOG  
BLCN 5,090  
CYCN 5,814  
BYCN 7,138

RSLR 1,827  
CSTL 3,197  
CPTN 3,860  
BLCN 5,096  
CYCN 5,920  
BYCN 7,188  
BSGL 8,483  
FBSG 9,625

RSLR 981  
LMAR 4,970  
BLCN 5,052  
CYCN 5,855  
BYCN 7,215  
BSGL 8,508  
FBSG 9,600  
SBSG 10,180  
TBSG 11,206  
STRN 11,885  
ATOK 12,187  
ATBK 12,280  
MRRW 12,897  
LMRW 13,480  
BRNT 13,598

BSGL 8,553  
FBSG 9,626  
SBSG 10,163  
WFMP 11,368  
STRN 11,700

NO GDS DATA



CONCHO RESOURCES INC.

GAZELLE AREA, LEA COUNTY, NEW MEXICO  
GDS FORMATION TOPS

3-17-99

GZGDS.TPS.GPF