

DATE IN 1/23/08	SUSPENSE	ENGINEER Brooks	LOGGED IN 1/24/08	TYPE NSL	APP NO. PKVR0802430136
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



Cimarex Energy Co. of Colorado

Pintail 23 Federal Com #2

ADMINISTRATIVE APPLICATION CHECKLIST

5786

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [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 - Simultaneous Dedication

☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [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

[D] ☐ Other: Specify _____

[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] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

James Bruce
 P.O. Box 1056
 Santa Fe, New Mexico 87504

Signature

Attorney for Applicant

Title

Date

jamesbruc@aol.com

e-mail Address

2008 JUN 23 AM 8 09
 RECEIVED

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)
(505) 660-6612 (Cell)
(505) 982-2151 (Fax)

jamesbruc@aol.com

January 22, 2008

Mark E. Fesmire, P.E.
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Dear Mr. Fesmire:

Pursuant to Division Rule 104.F(2), Cimarex Energy Co. of Colorado applies for approval of an unorthodox oil well location for the following well:

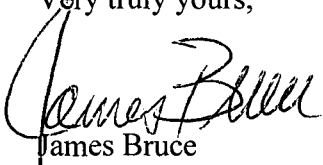
<u>Well name:</u>	Pintail 23 Fed. Com. Well No. 2
<u>Well location:</u>	<u>Surface:</u> 1250 feet FSL & 660 feet FWL <u>Bottom Hole:</u> 330 feet FSL & 330 feet FWL
<u>Well unit:</u>	SW $\frac{1}{4}$ SW $\frac{1}{4}$ §23-25S-26E, Eddy County, New Mexico

The well was drilled to a depth sufficient to test the Morrow formation, and was at an orthodox Morrow location. Exhibit A. (An orthodox location was proposed in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 23, but the BLM moved the location north to get the well out of a flood plain.) The well was dry in the Morrow, and applicant intends to attempt an uphole completion in the Delaware formation. Exhibit B.

The Delaware test will be a horizontal well. A sundry notice, *under* with a Form C-102 and directional drilling plan, is attached as Exhibit C. The well is in the North Cottonwood Draw-Delaware Pool, which is developed on statewide rules. The top of the Delaware (the Bell Canyon) is at a depth of 1832 feet. The well will be kicked off at a depth of 2827 feet, which is in the Cherry Canyon. The target depth is approximately 2950 feet.

The SW $\frac{1}{4}$ of Section 23 is covered by Federal Lease NM 19423, which has common ownership in the Delaware formation. Exhibit D. Therefore, there are no adversely affected offset interest owners, and no one has been notified of the application.

Very truly yours,



James Bruce

Attorney for Cimarex Energy Co. of Colorado

8106

HIGH CAVEKARST

ATS-07-547

If earthen pits are used in association with the drilling of this well, an OCD pit permit must be obtained prior to pit construction.

Form 3160-3
(April 2004)



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AUG 14 2007
OCD-ARTESIA

FORM APPROVED
OMB No 1004-0137
Expires March 31, 2007

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work ☒ DRILL ☐ REENTER		5. Lease Serial No NM-19423	
1b. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator Cimarex Energy Co. of Colorado		7. If Unit or CA Agreement, Name and No Pending	
3a. Address PO Box 140907 Irving, TX 75014		8. Lease Name and Well No Pintail 23 Federal Com No. 2	
3b. Phone No (include area code) 972-401-3111		9. API Well No 30-015- 35757	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At Surface 1250 FSL & 660 FWL At proposed prod Zone 1250 FSL & 660 FWL		10. Field and Pool, or Exploratory Cottonwood Draw; Morrow	
14. Distance in miles and direction from nearest town or post office* 17 miles south of Carlsbad		11. Sec., T., R., M. or Blk. and Survey or Area 23-25S-26E	
15. Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig. unit line if any) 660'	16. No of acres in lease 2560	17. Spacing Unit dedicated to this well W2 320	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft 2710'	19. Proposed Depth 12500'	20. BLM/BIA Bond No on File NM-2575	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3270' GR	22. Approximate date work will start* 11/25/2007	23. Estimated duration 35-45 days	

CARLSBAD CONTROLLED WATER BASIN

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form.

- | | |
|---|--|
| 1 Well plat certified by a registered surveyor | 4 Bond to cover the operations unless covered by an existing bond on file (see Item 20 above) |
| 2 A Drilling Plan | 5 Operator Certification |
| 3 A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office) | 6 Such other site specific information and/or plans as may be required by the authorized officer |

25. Signature <i>Zeno Farris</i>	Name (Printed/Typed) Zeno Farris	Date 07.12.07
Title Manager Operations Administration		
Approved By (Signature) <i>/s/ James Stovall</i>	Name (Printed/Typed) <i>/s/ James Stovall</i>	Date AUG 10 2007
Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

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, are attached

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

EXHIBIT

A

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

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

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 97377	Pool Name Cottonwood Draw; Morrow
Property Code	Property Name PINTAIL "23" FEDERAL COM	Well Number 2
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3270'

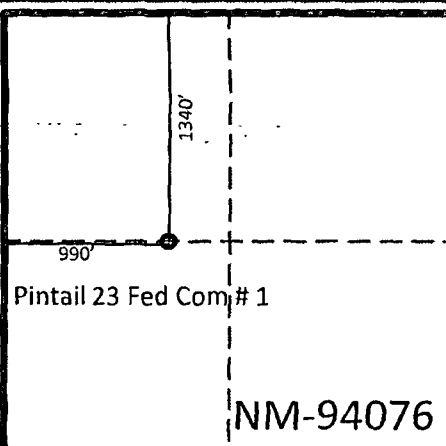
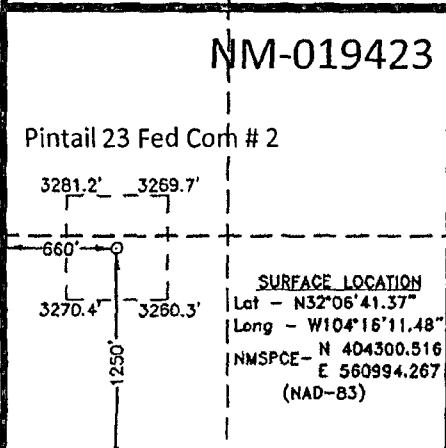
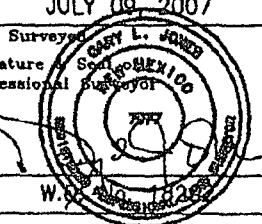
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	25 S	26 E		1250	SOUTH	660	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 320	Joint or Infill Y	Consolidation Code P		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

 Pintail 23 Fed Corn # 1 NM-94076	OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> Zeno Farris Signature 07-12-07 Date Zeno Farris Printed Name
 Pintail 23 Fed Corn # 2 NM-019423	SURVEYOR CERTIFICATION <i>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.</i> JULY 09, 2007 GARY L. JONES Signature 07-09-2007 Date Surveyed Professional Surveyor  Certificate No. Gary L. Jones 7977

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

S

SUNDRY NOTICES AND REPORTS ON WELLS
*Do not use this form for proposals to drill or to re-enter an
abandoned well. Use form 3160-3 (APD) for such proposals.*

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other
2. Name of Operator
Cimarex Energy Co. of Colorado
3a. Address
PO Box 140907; Irving, TX 75014-0907
3b. Phone No. (include area code)
972-401-3111
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1250' FSL & 660' FWL
23-25S-26E

DEC 4 2007

OCD-ARTESIA

5. Lease Serial No.
NM-19423
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No
Pending
8. Well Name and No.
Pintail 23 Federal Com No. 2
9. API Well No.
30-015-35757
10. Field and Pool, or Exploratory Area
Cottonwood Draw; Morrow
11. County or Parish, State
Eddy County, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☒ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, included estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones Attach the bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

- 11.15.07 Reached TD of 7-7/8" hole (12460'). Logged.
11.18.07 Elected to plug back for future completion in Cherry Canyon Delaware zone.
11.19.07 Received verbal approval from Wesley Ingram @ Carlsbad BLM to plug back.
11.20.07 Set 1st Plug @ 11395' w/ 100 sx Premium Class H (wt 15.6, yld 1.19).
Set 2nd plug @ 9395' w/ 100 sx Premium Neat Class H (wt 15.6, yld 1.19). Tagged plug @ 9116'.
Set 3rd plug @ 8635' w/ 100 sx Premium Neat Class H (wt 15.6, yld 1.19) + 1% CaCl2. Tagged plug @ 8343'.
Set 4th plug @ 6762' w/ 50 sx Premium Plus Class C (wt 14.8, yld 1.33).
Set 5th plug @ 5429' w/ 100 sx Premium Plus Class C (wt 14.8, yld 1.33) + 2% CaCl2.
11.21.07 Tagged 5th plug @ 5048'.
Set 6th plug @ 3365' w/ 325 sx Premium Plus Neat Class C (wt 16.5, yld 1.05). Tagged @ 2699'.
Released rig.

ACCEPTED FOR RECORD

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Natalie Krueger

Signature

Natalie Krueger

Title

Reg Analyst I

Date

November 26, 2007

DEC 1 2007

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of Approval, if any, are attached. Approval of this notice 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.

Office

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

EXHIBIT

B

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

DEC 17 2007
OCD-ARTESIA
SUNDRY NOTICES AND REPORTS ON WELLS
OCD-ARTESIA Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

\$

5. Lease Serial No.

NM-19423

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

Pending

8. Well Name and No.

Pintail 23 Federal Com No. 2

9. API Well No.

30-015-35757

10. Field and Pool, or Exploratory Area

Cottonwood Draw; Morrow

11. County or Parish, State

Eddy County, NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well

☒ Gas Well

☐ Other

2. Name of Operator

Cimarex Energy Co. of Colorado

3a. Address

PO Box 140907; Irving, TX 75014-0907

3b. Phone No. (include area code)

972-401-3111

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1250' FSL & 660' FWL

23-25S-26E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☒ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☒ Other Propose to

complete in Delaware zone

13. Describe Proposed or Completed Operation (clearly state all pertinent details, included estimated starting date of any proposed work and approximate duration thereof.

If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones.

Attach the bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days

following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once

testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Surface casing set @ 312' on 10-17-07, intermediate casing set @ 2742' on 10-22-07. Reached TD on 11-15-07 and logged. Received approval from Wesley Ingram @ BLM to plug back. Set 6 cement plugs - last plug @ 3365' - 2699.'

Request approval to perform the following horizontal operations for Delaware completion:

Drill 8-3/4" hole through cement to 2800'. Kick off open-hole @ 2816' with a 6-3/4" hole and build curve to 3073' MD and 2980' TVD.

Drill horizontal hole to BHL 330' FSL & 330' FWL, MD 3887' and TVD 2980'.

Run 5-1/2" 17# N-80 8rd LTC casing to 2600'.

Run 5-1/2" 17# N-80 flush-joint casing from 2600' to TD. Cement with 400 SKS (119 bbls) of Permian Basin Super H + Halad-344 + D-

Air 3000 + CFR-3 + Salt + Gilsontite + Poly-E-Flake + HR-7 Fresh Water Mixed @ 13.0 Lb/Gal, 1.68 Cuft/sk, 8-22 Gal/sk. Circulate to surface.

All drill cuttings and fluids will be contained in steel pits and hauled off to CRI disposal.

A 3M BOP system will be used during horizontal operations.

Perf and acidize, then turn to sales as Cottonwood Draw; Delaware, North oil well.

C-102, Rig Diagram, BOP Diagram, and preliminary directional survey attached.

APPROVED

DEC 11 2007

LES BARYAK

PETROLEUM ENGINEER

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Natalie Krueger

Signature

Title

Reg Analyst 1

Date

December 10, 2007

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Conditions of Approval, if any, are attached. Approval of this notice 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.

Office

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

(Instructions on reverse)

EXHIBIT

C

DISTRICT I

1625 N. French Dr., Hobbs, NM 88240

DISTRICT II

1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources DepartmentForm C-102
Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-35757	Pool Code 96720	Pool Name Cottonwood Draw; Delaware, North
Property Code	Property Name PINTAIL "23" FEDERAL COM	Well Number 2
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3270'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	25 S	26 E		1250	SOUTH	660	WEST	EDDY

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
M	23	25 S	26 E		330	SOUTH	330	WEST	EDDY

Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No. NSL Pending
-----------------------	-----------------	--------------------	--------------------------

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

SURFACE LOCATION Lat - N32°06'41.37" Long - W104°16'11.48" NMSPCE- N 404300.516 E 560994.267 (NAD-83) NM-019423	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Zeno Farris</i> 12-10-07 Signature Date Zeno Farris Printed Name
	SURVEYOR CERTIFICATION 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. JULY 09, 2007 Date Surveyed GARY L. JONES Signature of Surveyor Professional Surveyor W. O. Jones Certificate No. Gary L. Jones 7977 BASIN SURVEYS



Cimarex Energy Co., Inc.

Eddy Co., New Mexico

Pintail '23' Federal Com #2H

Pintail '23' Federal Com #2H

Lateral

Plan: Plan #1

Standard Survey Report

10 December, 2007





Black Viper Energy Survey Report



Company:	Cimarex Energy Co., Inc.	Local Co-ordinate Reference:	Well Pintail '23' Federal Com #2H
Project:	Eddy Co., New Mexico	TVD Reference:	Rig KB @ 3289.00ft (Rig KB Elevation)
Site:	Pintail '23' Federal Com #2H	MD Reference:	Rig KB @ 3289.00ft (Rig KB Elevation)
Well:	Pintail '23' Federal Com #2H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.14.1.0 Server DB

Project:	Eddy Co., New Mexico		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:		Pintail '23' Federal Com #2H			
Site Position:		Northing:	560,994.27 ft	Latitude:	32° 32' 29.189
From:	Map	Easting:	404,300.52 ft	Longitude:	104° 46' 40.940 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	-0.24 °

Well:		Pintail '23' Federal Com #2H				
Well Position	+N-S	0.00 ft	Northing:	560,994.27 ft	Latitude:	32° 32' 29.189 N
	+E-W	0.00 ft	Easting:	404,300.52 ft	Longitude:	104° 46' 40.940 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	3,289.00 ft	Ground Level:	3,270.00 ft

Wellbore	Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/26/2007	8.56	60.36	49,069

Design		Plan #1		
Audit Notes:				
Version:		Phase:	PROTOTYPE	Tie On Depth: 2,816.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	199.73

Survey Tool Program		Date: 12/10/2007		
From	To	Survey (Wellbore)	Tool Name	Description
(ft)	(ft)			
2,816.00	3,887.13	Plan #1 (Lateral)	MWD	MWD - Standard

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,742.00	0.00	0.00	0 00	0.00	0.00	0.00	0 00	0.00	0 00
9 5/8" Casing									
2,816.00	0.00	360.00	2,816.00	0.00	0.00	0.00	0 00	0.00	0.00
2,816.30	0 00	0.00	2,816.30	0 00	0.00	0.00	0.00	0 00	0.00
KOP - Build 35.0° / 100									
2,820.00	1.30	199.73	2,820.00	-0 04	-0 01	0.04	35.00	35 00	0.00
2,850 00	11.80	199.73	2,849 76	-3.25	-1.17	3 46	35.00	35.00	0.00
2,880.00	22.30	199.73	2,878.40	-11.52	-4.13	12.24	35.00	35 00	0.00
2,910.00	32.80	199.73	2,904.97	-24.56	-8.81	26.09	35.00	35.00	0.00
2,940.00	43 30	199.73	2,928.56	-41.94	-15.04	44.56	35.00	35.00	0 00
2,949.09	46 48	199.73	2,935 00	-47.98	-17.21	50 97	35.00	35.00	0.00
Cherry Canyon M3									
2,970 00	53.80	199 73	2,948.39	-63.07	-22.62	67.01	35.00	35.00	0.00



Black Viper Energy
Survey Report



Company:	Cimarex Energy Co., Inc.	Local Co-ordinate Reference:	Well Pintail '23' Federal Com #2H
Project:	Eddy Co., New Mexico	TVD Reference:	Rig KB @ 3289.00ft (Rig KB Elevation)
Site:	Pintail '23' Federal Com #2H	MD Reference:	Rig KB @ 3289.00ft (Rig KB Elevation)
Well:	Pintail '23' Federal Com #2H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.14.1.0 Server DB

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	N-S (ft)	E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
3,000.00	64.30	199.73	2,963.80	-87.26	-31.30	92.70	35.00	35.00	0.00	
3,030.00	74.80	199.73	2,974.27	-113.68	-40.78	120.77	35.00	35.00	0.00	
3,060.00	85.30	199.73	2,979.45	-141.45	-50.74	150.28	35.00	35.00	0.00	
3,073.44	90.00	199.73	2,980.00	-154.09	-55.27	163.70	35.00	35.00	0.00	
EOC - Hold 90.0° Inc. :: 199.73° Azi.										
3,090.00	90.00	199.73	2,980.00	-169.68	-60.86	180.26	0.00	0.00	0.00	
3,120.00	90.00	199.73	2,980.00	-197.91	-70.99	210.26	0.00	0.00	0.00	
3,150.00	90.00	199.73	2,980.00	-226.15	-81.12	240.26	0.00	0.00	0.00	
3,180.00	90.00	199.73	2,980.00	-254.39	-91.25	270.26	0.00	0.00	0.00	
3,210.00	90.00	199.73	2,980.00	-282.63	-101.38	300.26	0.00	0.00	0.00	
3,240.00	90.00	199.73	2,980.00	-310.87	-111.51	330.26	0.00	0.00	0.00	
3,270.00	90.00	199.73	2,980.00	-339.11	-121.64	360.26	0.00	0.00	0.00	
3,300.00	90.00	199.73	2,980.00	-367.34	-131.76	390.26	0.00	0.00	0.00	
3,330.00	90.00	199.73	2,980.00	-395.58	-141.89	420.26	0.00	0.00	0.00	
3,360.00	90.00	199.73	2,980.00	-423.82	-152.02	450.26	0.00	0.00	0.00	
3,390.00	90.00	199.73	2,980.00	-452.06	-162.15	480.26	0.00	0.00	0.00	
3,420.00	90.00	199.73	2,980.00	-480.30	-172.28	510.26	0.00	0.00	0.00	
3,450.00	90.00	199.73	2,980.00	-508.54	-182.41	540.26	0.00	0.00	0.00	
3,480.00	90.00	199.73	2,980.00	-536.77	-192.54	570.26	0.00	0.00	0.00	
3,510.00	90.00	199.73	2,980.00	-565.01	-202.67	600.26	0.00	0.00	0.00	
3,540.00	90.00	199.73	2,980.00	-593.25	-212.80	630.26	0.00	0.00	0.00	
3,570.00	90.00	199.73	2,980.00	-621.49	-222.93	660.26	0.00	0.00	0.00	
3,600.00	90.00	199.73	2,980.00	-649.73	-233.05	690.26	0.00	0.00	0.00	
3,630.00	90.00	199.73	2,980.00	-677.97	-243.18	720.26	0.00	0.00	0.00	
3,660.00	90.00	199.73	2,980.00	-706.20	-253.31	750.26	0.00	0.00	0.00	
3,690.00	90.00	199.73	2,980.00	-734.44	-263.44	780.26	0.00	0.00	0.00	
3,720.00	90.00	199.73	2,980.00	-762.68	-273.57	810.26	0.00	0.00	0.00	
3,750.00	90.00	199.73	2,980.00	-790.92	-283.70	840.26	0.00	0.00	0.00	
3,780.00	90.00	199.73	2,980.00	-819.16	-293.83	870.26	0.00	0.00	0.00	
3,810.00	90.00	199.73	2,980.00	-847.40	-303.96	900.26	0.00	0.00	0.00	
3,840.00	90.00	199.73	2,980.00	-875.63	-314.09	930.26	0.00	0.00	0.00	
3,870.00	90.00	199.73	2,980.00	-903.87	-324.22	960.26	0.00	0.00	0.00	
3,887.13	90.00	199.73	2,980.00	-920.00	-330.00	977.39	0.00	0.00	0.00	



Black Viper Energy
Survey Report



Company:	Cimarex Energy Co., Inc.	Local Coordinate Reference:	Well Pintail '23' Federal Com #2H
Project:	Eddy Co., New Mexico	TVD Reference:	Rig KB @ 3289.00ft (Rig KB Elevation)
Site:	Pintail '23' Federal Com #2H	MD Reference:	Rig KB @ 3289.00ft (Rig KB Elevation)
Well:	Pintail '23' Federal Com #2H	North Reference:	Grid
Wellbore:	Lateral	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM 2003.14.1.0 Server DB

Targets									
Target Name	Dip Angle	Dip Dir	TVD	N/S	+E/-W	Northing	Easting	Latitude	Longitude
hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
Shape									
PBHL#1[P23FedCom#2	0 00	360.00	2,980.00	-920.00	-330 00	560,074.27	403,970.52	32° 32' 20.072 N	104° 46' 44.751 W
- plan hits target									
- Point									

Casing Points				
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter
(ft)	(ft)		(in)	(in)
2,742.00	9 5/8" Casing		9-5/8	12-1/4

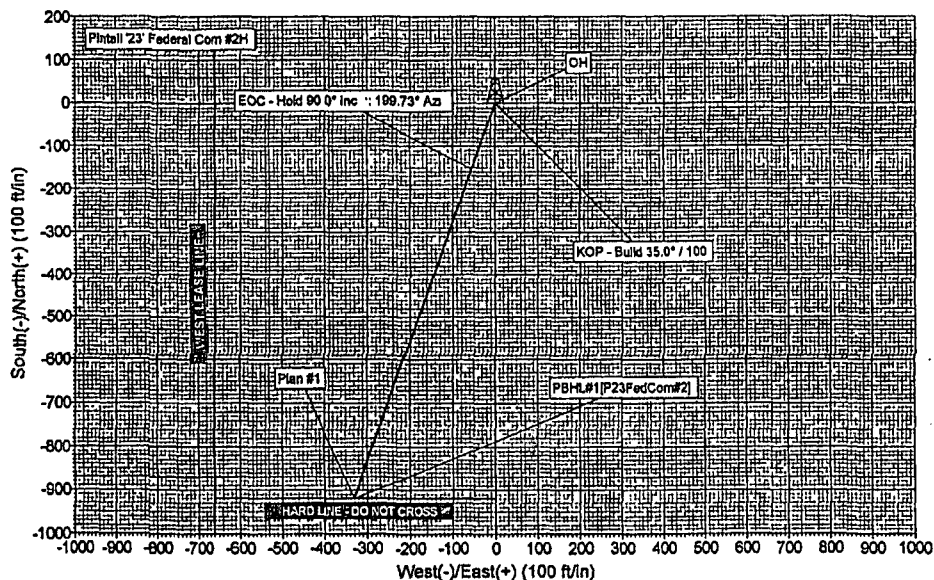
Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
	2,797.00	T/ Cherry Canyon		0.00	0.48
2,849.09	2,835.00	Cherry Canyon M3		0.00	0.48

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		
(ft)	(ft)	N/S	+E/-W	Comment
		(ft)	(ft)	
2,816.30	2,816.30	0 00	0.00	KOP - Build 35.0° / 100
3,073.44	2,980.00	-154.09	-55.27	EOC - Hold 90.0° Inc. :: 199 73° Azi.

Checked By: _____	Approved By: _____	Date: _____
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Project: Eddy Co., New Mexico
 Site: Pintail 23' Federal Com #2H
 Well: Pintail 23' Federal Com #2H
 Wellbore: Lateral
 Plan: Plan #1 (Pintail 23' Federal Com #2H/Lateral)



PROJECT DETAILS Eddy Co., New Mexico

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GR8 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level



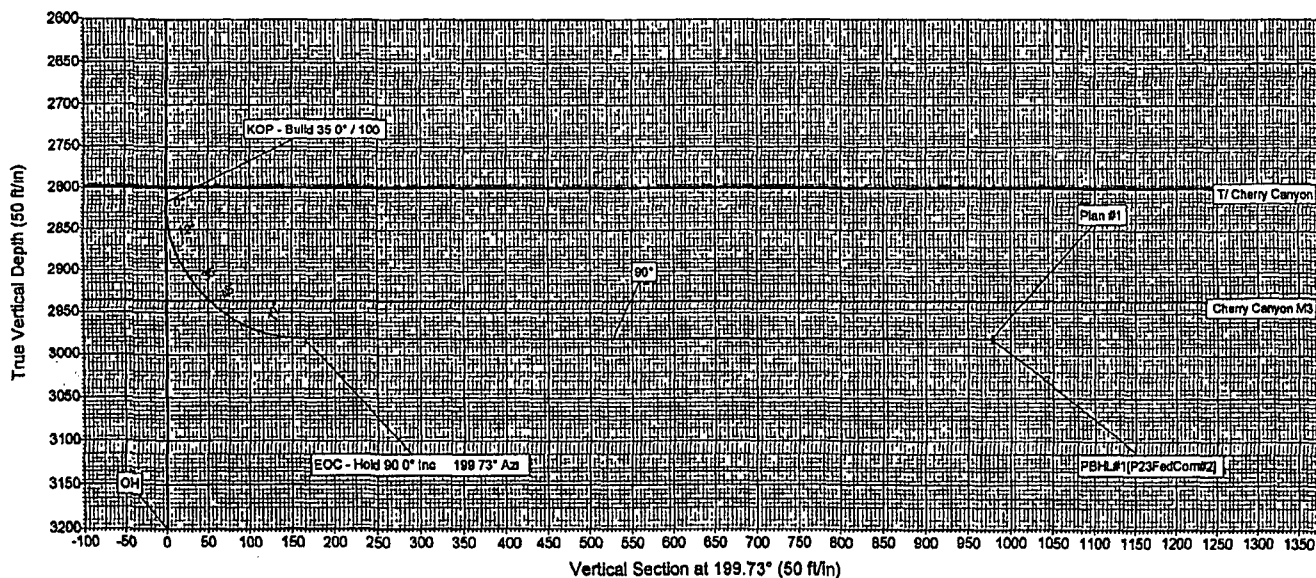
Azimuths to Grid North
 True North 0 24°
 Magnetic North 8 80°
 Magnetic Field
 Strength 48069 3nT
 Dip Angle 60 36°
 Date 11/28/2007
 Model IGRF200510

ANNOTATIONS

TVD	MD	Annotation
2816 30	2816 30	KOP - Build 35 0° / 100
2880 00	3073 44	EOC - Hold 90 0° Inc 199 73° Azi

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	DLog	TFace	VSec	Target
1	2816 00	0 00	360 00	2816 00	0 00	0 00	0 00	0 00	0 00	
2	2816 30	0 00	0 00	2816 30	0 00	0 00	0 00	0 00	0 00	
3	3073 44	90 00	199 73	2880 00	-154 09	-55 27	35 00	199 73	163 70	
4	3887 13	90 00	199 73	2980 00	-920 00	-330 00	0 00	0 00	977 39	PBHL#1[P23FedCom#2]



1

Plan: Plan #1 (Pintail 23' Federal Com #2H/Lateral)
 Created By: L.D. Barton Date: December 10, 2007

Pintail '23' Federal Com #2H Lateral Plan #1 Report 12-10-07.txt
 Cimarex Energy Co., Inc.
 Pintail '23' Federal Com #2H - Plan #1

Eddy Co., New Mexico
 Pintail '23' Federal Com #2H

Measured Dogleg Depth Rate (ft) (°/100ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)
2820.00	1.296	199.733	2820.00	0.04 S	0.01 W	0.04
0.00						
2830.00	4.796	199.733	2829.98	0.54 S	0.19 W	0.57
35.00						
2840.00	8.296	199.733	2839.92	1.61 S	0.58 W	1.71
35.00						
2850.00	11.796	199.733	2849.76	3.25 S	1.17 W	3.46
35.00						
2860.00	15.296	199.733	2859.48	5.46 S	1.96 W	5.80
35.00						
2870.00	18.796	199.733	2869.04	8.22 S	2.95 W	8.73
35.00						
2880.00	22.296	199.733	2878.40	11.52 S	4.13 W	12.24
35.00						
2890.00	25.796	199.733	2887.54	15.35 S	5.51 W	16.31
35.00						
2900.00	29.296	199.733	2896.40	19.71 S	7.07 W	20.94
35.00						
2910.00	32.796	199.733	2904.97	24.56 S	8.81 W	26.09
35.00						
2920.00	36.296	199.733	2913.20	29.90 S	10.72 W	31.76
35.00						
2930.00	39.796	199.733	2921.08	35.70 S	12.80 W	37.92
35.00						
2940.00	43.296	199.733	2928.56	41.94 S	15.04 W	44.56
35.00						
2950.00	46.796	199.733	2935.62	48.60 S	17.43 W	51.63
35.00						
2960.00	50.296	199.733	2942.24	55.65 S	19.96 W	59.13
35.00						
2970.00	53.796	199.733	2948.39	63.07 S	22.62 W	67.01
35.00						
2980.00	57.296	199.733	2954.05	70.83 S	25.41 W	75.25
35.00						
2990.00	60.796	199.733	2959.19	78.91 S	28.30 W	83.83
35.00						
3000.00	64.296	199.733	2963.80	87.26 S	31.30 W	92.70
35.00						
3010.00	67.796	199.733	2967.86	95.86 S	34.38 W	101.84
35.00						
3020.00	71.296	199.733	2971.35	104.68 S	37.55 W	111.21
35.00						
3030.00	74.796	199.733	2974.27	113.68 S	40.78 W	120.77
35.00						
3040.00	78.296	199.733	2976.60	122.83 S	44.06 W	130.49
35.00						
3050.00	81.796	199.733	2978.32	132.10 S	47.38 W	140.34
35.00						
3060.00	85.296	199.733	2979.45	141.45 S	50.74 W	150.28
35.00						

	Pintail '23'	Federal	Com #2H	Lateral	Plan #1	Report 12-10-07.txt	
3070.00	88.796	199.733	2979.96	150.85	S	54.11	W 160.26
35.00							
3080.00	90.000	199.733	2980.00	160.26	S	57.49	W 170.26
12.04							
3090.00	90.000	199.733	2980.00	169.68	S	60.86	W 180.26
0.00							
3100.00	90.000	199.733	2980.00	179.09	S	64.24	W 190.26
0.00							
3110.00	90.000	199.733	2980.00	188.50	S	67.61	W 200.26
0.00							
3120.00	90.000	199.733	2980.00	197.91	S	70.99	W 210.26
0.00							
3130.00	90.000	199.733	2980.00	207.33	S	74.37	W 220.26
0.00							
3140.00	90.000	199.733	2980.00	216.74	S	77.74	W 230.26
0.00							
3150.00	90.000	199.733	2980.00	226.15	S	81.12	W 240.26
0.00							
3160.00	90.000	199.733	2980.00	235.57	S	84.50	W 250.26
0.00							
3170.00	90.000	199.733	2980.00	244.98	S	87.87	W 260.26
0.00							
3180.00	90.000	199.733	2980.00	254.39	S	91.25	W 270.26
0.00							
3190.00	90.000	199.733	2980.00	263.80	S	94.63	W 280.26
0.00							
3200.00	90.000	199.733	2980.00	273.22	S	98.00	W 290.26
0.00							
3210.00	90.000	199.733	2980.00	282.63	S	101.38	W 300.26
0.00							
3220.00	90.000	199.733	2980.00	292.04	S	104.75	W 310.26
0.00							
3230.00	90.000	199.733	2980.00	301.46	S	108.13	W 320.26
0.00							
3240.00	90.000	199.733	2980.00	310.87	S	111.51	W 330.26
0.00							
3250.00	90.000	199.733	2980.00	320.28	S	114.88	W 340.26
0.00							
3260.00	90.000	199.733	2980.00	329.69	S	118.26	W 350.26
0.00							
3270.00	90.000	199.733	2980.00	339.11	S	121.64	W 360.26
0.00							
3280.00	90.000	199.733	2980.00	348.52	S	125.01	W 370.26
0.00							
3290.00	90.000	199.733	2980.00	357.93	S	128.39	W 380.26
0.00							
3300.00	90.000	199.733	2980.00	367.34	S	131.76	W 390.26
0.00							
3310.00	90.000	199.733	2980.00	376.76	S	135.14	W 400.26
0.00							
3320.00	90.000	199.733	2980.00	386.17	S	138.52	W 410.26
0.00							
3330.00	90.000	199.733	2980.00	395.58	S	141.89	W 420.26
0.00							
3340.00	90.000	199.733	2980.00	405.00	S	145.27	W 430.26
0.00							
3350.00	90.000	199.733	2980.00	414.41	S	148.65	W 440.26
0.00							
3360.00	90.000	199.733	2980.00	423.82	S	152.02	W 450.26
0.00							
3370.00	90.000	199.733	2980.00	433.23	S	155.40	W 460.26
0.00							
3380.00	90.000	199.733	2980.00	442.65	S	158.78	W 470.26

Pintail '23' Federal Com #2H Lateral Plan #1 Report 12-10-07.txt

0.00						
3390.00	90.000	199.733	2980.00	452.06 S	162.15 W	480.26
0.00						
3400.00	90.000	199.733	2980.00	461.47 S	165.53 W	490.26
0.00						
3410.00	90.000	199.733	2980.00	470.89 S	168.90 W	500.26
0.00						
3420.00	90.000	199.733	2980.00	480.30 S	172.28 W	510.26
0.00						
3430.00	90.000	199.733	2980.00	489.71 S	175.66 W	520.26
0.00						
3440.00	90.000	199.733	2980.00	499.12 S	179.03 W	530.26
0.00						
3450.00	90.000	199.733	2980.00	508.54 S	182.41 W	540.26
0.00						
3460.00	90.000	199.733	2980.00	517.95 S	185.79 W	550.26
0.00						
3470.00	90.000	199.733	2980.00	527.36 S	189.16 W	560.26
0.00						
3480.00	90.000	199.733	2980.00	536.77 S	192.54 W	570.26
0.00						
3490.00	90.000	199.733	2980.00	546.19 S	195.92 W	580.26
0.00						
3500.00	90.000	199.733	2980.00	555.60 S	199.29 W	590.26
0.00						
3510.00	90.000	199.733	2980.00	565.01 S	202.67 W	600.26
0.00						
3520.00	90.000	199.733	2980.00	574.43 S	206.04 W	610.26
0.00						
3530.00	90.000	199.733	2980.00	583.84 S	209.42 W	620.26
0.00						
3540.00	90.000	199.733	2980.00	593.25 S	212.80 W	630.26
0.00						
3550.00	90.000	199.733	2980.00	602.66 S	216.17 W	640.26
0.00						
3560.00	90.000	199.733	2980.00	612.08 S	219.55 W	650.26
0.00						
3570.00	90.000	199.733	2980.00	621.49 S	222.93 W	660.26
0.00						
3580.00	90.000	199.733	2980.00	630.90 S	226.30 W	670.26
0.00						
3590.00	90.000	199.733	2980.00	640.32 S	229.68 W	680.26
0.00						
3600.00	90.000	199.733	2980.00	649.73 S	233.05 W	690.26
0.00						
3610.00	90.000	199.733	2980.00	659.14 S	236.43 W	700.26
0.00						
3620.00	90.000	199.733	2980.00	668.55 S	239.81 W	710.26
0.00						
3630.00	90.000	199.733	2980.00	677.97 S	243.18 W	720.26
0.00						
3640.00	90.000	199.733	2980.00	687.38 S	246.56 W	730.26
0.00						
3650.00	90.000	199.733	2980.00	696.79 S	249.94 W	740.26
0.00						
3660.00	90.000	199.733	2980.00	706.20 S	253.31 W	750.26
0.00						
3670.00	90.000	199.733	2980.00	715.62 S	256.69 W	760.26
0.00						
3680.00	90.000	199.733	2980.00	725.03 S	260.07 W	770.26
0.00						
3690.00	90.000	199.733	2980.00	734.44 S	263.44 W	780.26
0.00						

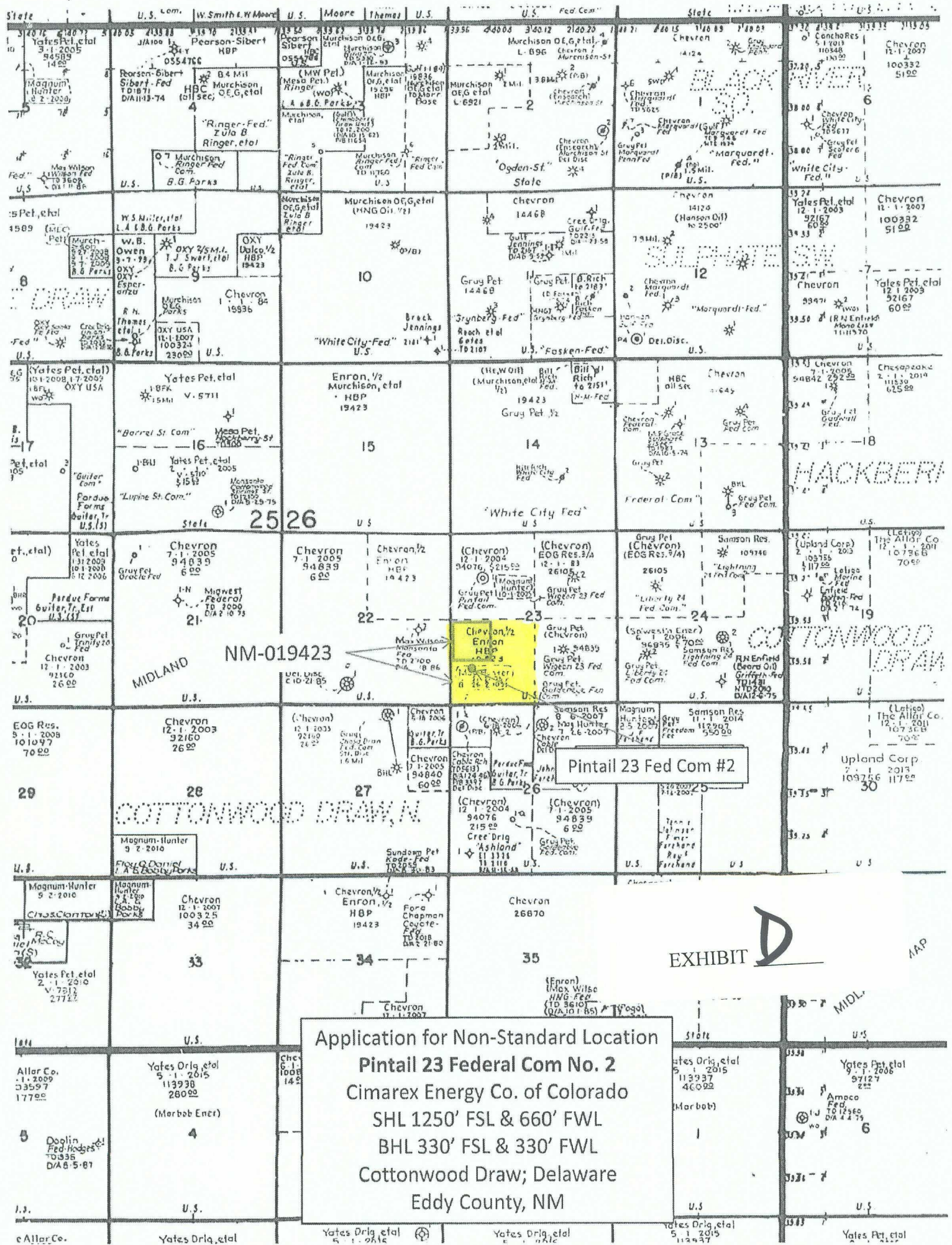
	Pintail '23'	Federal	Com #2H	Lateral Plan #1	Report 12-10-07.txt	
3700.00	90.000	199.733	2980.00	743.86 S	266.82 W	790.26
0.00						
3710.00	90.000	199.733	2980.00	753.27 S	270.19 W	800.26
0.00						
3720.00	90.000	199.733	2980.00	762.68 S	273.57 W	810.26
0.00						
3730.00	90.000	199.733	2980.00	772.09 S	276.95 W	820.26
0.00						
3740.00	90.000	199.733	2980.00	781.51 S	280.32 W	830.26
0.00						
3750.00	90.000	199.733	2980.00	790.92 S	283.70 W	840.26
0.00						
3760.00	90.000	199.733	2980.00	800.33 S	287.08 W	850.26
0.00						
3770.00	90.000	199.733	2980.00	809.75 S	290.45 W	860.26
0.00						
3780.00	90.000	199.733	2980.00	819.16 S	293.83 W	870.26
0.00						
3790.00	90.000	199.733	2980.00	828.57 S	297.20 W	880.26
0.00						
3800.00	90.000	199.733	2980.00	837.98 S	300.58 W	890.26
0.00						
3810.00	90.000	199.733	2980.00	847.40 S	303.96 W	900.26
0.00						
3820.00	90.000	199.733	2980.00	856.81 S	307.33 W	910.26
0.00						
3830.00	90.000	199.733	2980.00	866.22 S	310.71 W	920.26
0.00						
3840.00	90.000	199.733	2980.00	875.63 S	314.09 W	930.26
0.00						
3850.00	90.000	199.733	2980.00	885.05 S	317.46 W	940.26
0.00						
3860.00	90.000	199.733	2980.00	894.46 S	320.84 W	950.26
0.00						
3870.00	90.000	199.733	2980.00	903.87 S	324.22 W	960.26
0.00						
3880.00	90.000	199.733	2980.00	913.29 S	327.59 W	970.26
0.00						
3887.13	90.000	199.733	2980.00	920.00 S	330.00 W	977.39
0.00						

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to Rig KB. Northings and Eastings are relative to well.

The Dogleg Severity is in Degrees per 100 feet.
Vertical section is from Site and calculated along an Azimuth of 199.733° (Grid).

Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone.
Central meridian is -104.333°.
Grid convergence at Surface is -0.239°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 3887.13ft., the Bottom Hole Displacement is 977.39ft., in the Direction of 199.733° (Grid).



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Case Type 311211: O&G LSE SIMO PUBLIC LAND
Commodity 459: OIL & GAS L
Case Disposition: AUTHORIZED

Total Acres
2,560.000

Serial Number
NMNM-- - 019423

Serial Number: NMNM-- - 019423

Name & Address				Int Rel	% Interest
CHEVRON USA	10 DESTA DR #79705	MIDLAND TX 79701	OPERATING RIGHTS		0.000000000
CHEVRON USA PROD CO	PO BOX 1635	HOUSTON TX 772511635	OPERATING RIGHTS		0.000000000
CIMAREX ENERGY CO	508 W WALL ST #600	MIDLAND TX 79701	OPERATING RIGHTS		0.000000000
ENSERCH EXPL INC	6688 N CENTRAL EXPY	DALLAS TX 752063922	OPERATING RIGHTS		0.000000000
EOG RESOURCES INC	333 CLAY ST #4200	HOUSTON TX 77002	LESSEE		0.000000000
MAGNUM HUNTER PRODUCTION INC	5215 N O'CONNER BLVD #1500	IRVING TX 750393764	OPERATING RIGHTS		0.000000000
MURCHISON OIL & GAS INC	1445 ROSS AVE #5300	DALLAS TX 752022883	LESSEE		0.000000000
PENROC OIL CORP	PO BOX 2769	HOBBS NM 88241	OPERATING RIGHTS		0.000000000
POGO PRODUCING CO	PO BOX 2504	HOUSTON TX 772522504	LESSEE		0.000000000
RICH BILL	2509 WESTERN WAY	CARLSBAD NM 88220	OPERATING RIGHTS		0.000000000
RICH PATSY	5103 OLD CAVERN RD	CARLSBAD NM 88220	OPERATING RIGHTS		0.000000000
RODEN W F	PO BOX 10909	MIDLAND TX 79702	OPERATING RIGHTS		0.000000000

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Mer Twp	Rng	Sec	STyp	SNr Suff	Subdivision	District/Resource Area	County	Mgmt Agency
23	0250S	0260E 009	ALIQ		SENE;	CARLSBAD FO	EDDY	BUREAU OF LAND MGMT
23	0250S	0260E 010	ALIQ		E2,E2NW,SWNW,SW;	CARLSBAD FO	EDDY	BUREAU OF LAND MGMT
23	0250S	0260E 014	ALL		ALL;	CARLSBAD FO	EDDY	BUREAU OF LAND MGMT
23	0250S	0260E 015	ALL		ENTIRE SECTION	CARLSBAD FO	EDDY	BUREAU OF LAND MGMT
23	0250S	0260E 022	ALIQ		NE;	CARLSBAD FO	EDDY	BUREAU OF LAND MGMT
23	0250S	0260E 023	ALIQ		SW;	CARLSBAD FO	EDDY	BUREAU OF LAND MGMT
23	0250S	0260E 034	ALIQ		N2;	CARLSBAD FO	EDDY	BUREAU OF LAND MGMT

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Act Date	Code	Action	Action Remarks	Pending Office
08/26/1973	387	CASE ESTABLISHED	SPAR64;	
08/27/1973	888	DRAWING HELD		
10/01/1973	140	ASGN FILED	LACHANCE/CENTRAL SW	
10/01/1973	140	ASGN FILED	LACHANCE/CTL SW	
10/05/1973	237	LEASE ISSUED		
10/24/1973	139	ASGN APPROVED	EFF 11/01/1973;	
11/01/1973	496	FUND CODE	05;145003	
11/01/1973	530	RLTY RATE - 12 1/2%		
11/01/1973	868	EFFECTIVE DATE		
01/25/1974	140	ASGN FILED	CTL SW OIL/CHALFANT	
01/31/1974	140	ASGN FILED	LACHANCE/CTL SW CORR	
03/04/1974	139	ASGN APPROVED	01EFF 02/01/1974;	
03/04/1974	139	ASGN APPROVED	EFF 02/01/1974;	
05/08/1974	140	ASGN FILED	CHALFANT/HNG OIL	
11/18/1974	139	ASGN APPROVED	EFF 06/01/1974;	
08/18/1975	140	ASGN FILED	CTL SW OIL/CHALFANT	
08/21/1975	140	ASGN FILED	CHALFANT/MESA PETRO	

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08/25/1975	139	ASGN APPROVED	01EFF 09/01/1975;
08/25/1975	139	ASGN APPROVED	02EFF 09/01/1975;
08/26/1975	140	ASGN FILED	CTRL SW/DALCO OIL
03/19/1976	139	ASGN APPROVED	03EFF 09/01/1975;
12/01/1976	650	HELD BY PROD - ACTUAL	
01/25/1977	102	NOTICE SENT-PROD STATUS	
10/21/1977	817	MERGER RECOGNIZED	DALCO OIL/SABINE PROD
10/21/1977	817	MERGER RECOGNIZED	PLANET OIL/DALCO OIL
12/11/1978	932	TRF OPER RGTS FILED	D FORD/HANSON OIL
12/11/1978	932	TRF OPER RGTS FILED	FORD/HANSON OIL
02/21/1979	246	LEASE COMMITTED TO CA	SRM 1350 EFF 01/09/79
03/03/1979	932	TRF OPER RGTS FILED	HNG OIL/MESA PETRO
10/01/1979	140	ASGN FILED	SABINE/POGO PROD
10/10/1979	957	TRF OPER RGTS DENIED	D FORD/HANSON OIL
01/21/1980	139	ASGN APPROVED	EFF 11/01/1979;
07/31/1980	932	TRF OPER RGTS FILED	HNG OIL/RODEN
03/28/1983	933	TRF OPER RGTS APPROVED	EFF 04/01/79;
03/29/1983	933	TRF OPER RGTS APPROVED	EFF 08/01/80;
09/12/1983	933	TRF OPER RGTS APPROVED	EFF 01/01/79;
12/19/1983	932	TRF OPER RGTS FILED	HANSON OIL/H&W OIL
01/09/1984	933	TRF OPER RGTS APPROVED	EFF 01/01/84;
10/02/1984	963	CASE MICROFILMED	CNUM 101,478 AC
03/31/1986	140	ASGN FILED	MESA PETRO/MESA OPER
03/31/1986	932	TRF OPER RGTS FILED	MESA PETRO/MESA OPER
06/13/1986	139	ASGN APPROVED	EFF 04/01/86;
06/13/1986	933	TRF OPER RGTS APPROVED	EFF 04/01/86;
09/21/1987	817	MERGER RECOGNIZED	BELCO DEV/ENRON OG
09/21/1987	817	MERGER RECOGNIZED	BELNORTH ENE/ENRON OG
09/21/1987	817	MERGER RECOGNIZED	BELNORTH PETRO/ENRON
09/21/1987	817	MERGER RECOGNIZED	HNG OIL/ENRON OG
06/30/1988	974	AUTOMATED RECORD VERIF	JA/LO
09/18/1989	140	ASGN FILED	MESA OPER/MURCHISON
09/18/1989	932	TRF OPER RGTS FILED	MESA OPER/MURCHISON
10/12/1989	139	ASGN APPROVED	EFF 10/01/89;
10/12/1989	933	TRF OPER RGTS APPROVED	EFF 10/01/89;
10/12/1989	974	AUTOMATED RECORD VERIF	MCS/MT
12/19/1989	909	BOND ACCEPTED	EFF 01/05/90;NM1687
07/30/1990	932	TRF OPER RGTS FILED	H & W OIL/BILL RICH
07/31/1990	909	BOND ACCEPTED	EFF 07/30/90;NM1788
07/31/1990	974	AUTOMATED RECORD VERIF	MRR/ML
09/10/1990	933	TRF OPER RGTS APPROVED	EFF 08/01/90;
09/10/1990	974	AUTOMATED RECORD VERIF	TF/MT
12/10/1990	932	TRF OPER RGTS FILED	ENRON O&G/W F RODEN
12/14/1990	933	TRF OPER RGTS APPROVED	EFF 01/01/91;
12/14/1990	974	AUTOMATED RECORD VERIF	HKG/MT
01/07/1991	932	TRF OPER RGTS FILED	RODEN/PETER PAUL PETR

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03/18/1991	933	TRF OPER RGTS APPROVED	EFF 02/01/91;
03/18/1991	974	AUTOMATED RECORD VERIF	GLC/MT
12/23/1991	140	ASGN FILED	PETER PAUL PETR/POSSE
04/30/1992	269	ASGN DENIED	PETER PAUL PETR/POSSE
04/30/1992	974	AUTOMATED RECORD VERIF	TF/JS
05/15/1992	932	TRF OPER RGTS FILED	ENRON/MATADOR
05/28/1992	933	TRF OPER RGTS APPROVED	EFF 06/01/92;
05/28/1992	974	AUTOMATED RECORD VERIF	HKG/JS
10/01/1992	621	RLTY RED-STRIPPER WELL	1.3%; /1/
07/22/1993	625	RLTY REDUCTION APPV	/1/
08/30/1993	932	TRF OPER RGTS FILED	PETER PAUL PET/POSSE
10/21/1993	933	TRF OPER RGTS APPROVED	EFF 09/01/93;
10/21/1993	974	AUTOMATED RECORD VERIF	JLV/KRP
11/03/1993	974	AUTOMATED RECORD VERIF	ANN
05/31/1994	899	TRF OF ORR FILED	
02/03/1995	932	TRF OPER RGTS FILED	MURCHISON OG/RICH B
04/11/1995	933	TRF OPER RGTS APPROVED	EFF 03/01/95;
04/11/1995	974	AUTOMATED RECORD VERIF	BCO
04/20/1995	974	AUTOMATED RECORD VERIF	SSP
05/17/1995	575	APD FILED	DALEN RES OIL & GAS
08/28/1995	932	TRF OPER RGTS FILED	POSSE PETRO/DALEN RES
09/05/1995	899	TRF OF ORR FILED	(1)
09/05/1995	899	TRF OF ORR FILED	(2)
09/27/1995	933	TRF OPER RGTS APPROVED	EFF 09/01/95;
09/27/1995	974	AUTOMATED RECORD VERIF	MV/MV
12/19/1995	817	MERGER RECOGNIZED	DALEN RES/ENSERCH EXP
02/03/1997	817	MERGER RECOGNIZED	POSSE PETRO LTD/POSSE
03/21/1997	974	AUTOMATED RECORD VERIF	RAYO/RAYO
04/08/1997	932	TRF OPER RGTS FILED	POSSE/CHEVRON
05/14/1997	933	TRF OPER RGTS APPROVED	EFF 05/01/97;
05/14/1997	974	AUTOMATED RECORD VERIF	MV/MV
05/30/1997	575	APD FILED	
06/25/1997	576	APD APPROVED	#3H WHITE CITY FED 14
07/07/1997	932	TRF OPER RGTS FILED	ENSERCH/CHEVRON
08/13/1997	933	TRF OPER RGTS APPROVED	EFF 08/01/97;
08/13/1997	974	AUTOMATED RECORD VERIF	ANN
10/15/1997	932	TRF OPER RGTS FILED	POGO/CHEVRON
11/07/1997	933	TRF OPER RGTS APPROVED	EFF 11/01/97;
11/07/1997	974	AUTOMATED RECORD VERIF	ANN
11/14/1997	817	MERGER RECOGNIZED	ENSERCH/LONE STAR
11/14/1997	940	NAME CHANGE RECOGNIZED	LONE STAR/ENSERCH
11/19/1997	932	TRF OPER RGTS FILED	ENRON/CHEVRON
11/24/1997	817	MERGER RECOGNIZED	ENSERCH/LONE STAR
11/24/1997	940	NAME CHANGE RECOGNIZED	LONE STAR/ENSERCH
12/10/1997	933	TRF OPER RGTS APPROVED	EFF 12/01/97;
12/10/1997	974	AUTOMATED RECORD VERIF	JLV

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12/19/1997	974	AUTOMATED RECORD VERIF	RAYO/CEV
08/30/1999	817	MERGER RECOGNIZED	EOG RES/ENRON O&G CO
08/30/1999	940	NAME CHANGE RECOGNIZED	ENRON O&G CO/EOG RES
05/11/2001	246	LEASE COMMITTED TO CA	NMNM107692;
05/11/2001	660	MEMO OF 1ST PROD-ALLOC	/2/
06/04/2001	377	BOND TERMINATION RQSTD	NM1788;RICH
06/12/2001	463	BOND TERMINATION DENIED	NM1788;TWO WELLS
06/12/2001	974	AUTOMATED RECORD VERIF	MCS
08/29/2002	643	PRODUCTION DETERMINATION	/2/ NMNM107692
05/21/2003	377	BOND TERMINATION RQSTD	NM1788;RICH
05/28/2003	463	BOND TERMINATION DENIED	NM1788;TWO WELLS
05/28/2003	974	AUTOMATED RECORD VERIF	MCS
09/02/2003	817	MERGER RECOGNIZED	MATADOR/TOM BROWN INC
10/15/2004	932	TRF OPER RGTS FILED	TOM BROWN/MAGNUM HUNT
10/26/2004	932	TRF OPER RGTS FILED	POSSE ENE/CHEVRON USA
11/18/2004	933	TRF OPER RGTS APPROVED	EFF 11/01/04;
11/18/2004	974	AUTOMATED RECORD VERIF	MV
12/06/2004	933	TRF OPER RGTS APPROVED	EFF 11/01/04;
12/06/2004	974	AUTOMATED RECORD VERIF	ANN
12/19/2005	932	TRF OPER RGTS FILED	CHEVRON U/PENROC OI;1
01/26/2006	933	TRF OPER RGTS APPROVED	EFF 01/01/06;
01/26/2006	974	AUTOMATED RECORD VERIF	MV
10/09/2007	932	TRF OPER RGTS FILED	EOG RESOU/MAGNUM HU;1
12/06/2007	933	TRF OPER RGTS APPROVED	EFF 11/01/07;
12/06/2007	974	AUTOMATED RECORD VERIF	ANN

Line Nr **Remarks** **Serial Number: NMNM-- - 019423**

0002	BONDED OPERATOR(S)	
0003	11/07/1997 - MATADOR OPER CO NM1687 S/W	
0004	CURRENT RECORD TITLE OWNERS	
0005	SEC 9: SENE; SEC 10: E2,E2W2,SWNW,W2SW;	
0006	SEC 14: ALL; SEC 15:ALL	
0007	MURCHISON OIL & GAS INC	50.00000
0008	EOG RES INC	50.00000
0009	-	
0010	SEC 22: NE; SEC 23: SW; SEC 34: N2	
0011	POGO PRODUCING CO	50.00000
0012	EOG RES INC	50.00000
0013	01/26/06 EOG BONDED LESSEE WYB000238	
0014	OPERATOR BONDED - 12/06/2007	
0015	CIMARES ENERGY CO OF COLORADO - NM2575 - S/W;	

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