

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

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

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		5. Lease Serial No. NM-92160
2. Name of Operator Cimarex Energy Co. of Colorado ✓		6. If Indian, Allottee or Tribe Name
3a. Address 600 N. Marienfeld St., Ste. 600; Midland, TX 79701		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) 432-571-7800		8. Well Name and No. <i>com</i> Chosa Draw 27 Federal No. 4
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SHL 330 FSL & 1750 FEL 27-25S-26E BHL 2310 FSL & 1900 FEL		9. API Well No. 30-015-37181 ✓
		10. Field and Pool, or Exploratory Area Cottonwood Draw; Delaware, North
		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 <u>Change</u>
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	<u>Location</u>
	☐ 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.)

Cimarex is changing the SHL for this well to obtain the optimum well spot based on seismic data. Please see new location below, as well as attached revised plats and preliminary directional survey.

Permitted Location
27-25S-26E
SHL 330 FSL & 1750 FEL
BHL 2310 FSL & 1900 FEL
Eddy County, NM

Proposed Location
27-25S-26E
SHL 610 FSL & 1650 FEL
BHL 330 FSL & 1720 FEL
Eddy County, NM

All aspects of casing are the same, except KOP is now 2801' and TD is now 7257.4' MD, 2984.7' TVD.



14. I hereby certify that the foregoing is true and correct	
Name (Printed/Typed) Natalie Krueger	Title Regulatory
Signature <i>Natalie Krueger</i>	Date August 25, 2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by /s/ Don Peterson	Title FIELD MANAGER	Date FEB 11 2011
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 CARLSBAD FIELD 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 of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

[Handwritten signature]

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 Department

Form C-102
Revised October 15, 2009

Submit one copy to appropriate
District Office

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-37181	Pool Code 96720	Pool Name Cottonwood Draw; Delaware, North
Property Code 32670	Property Name CHOSA DRAW "27" FEDERAL	Well Number 4
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3319'

Surface Location

UL or lot No. O	Section 27	Township 25 S	Range 26 E	Lot Idn	Feet from the 610	North/South line SOUTH	Feet from the 1650	East/West line EAST	County EDDY
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Bottom Hole Location If Different From Surface

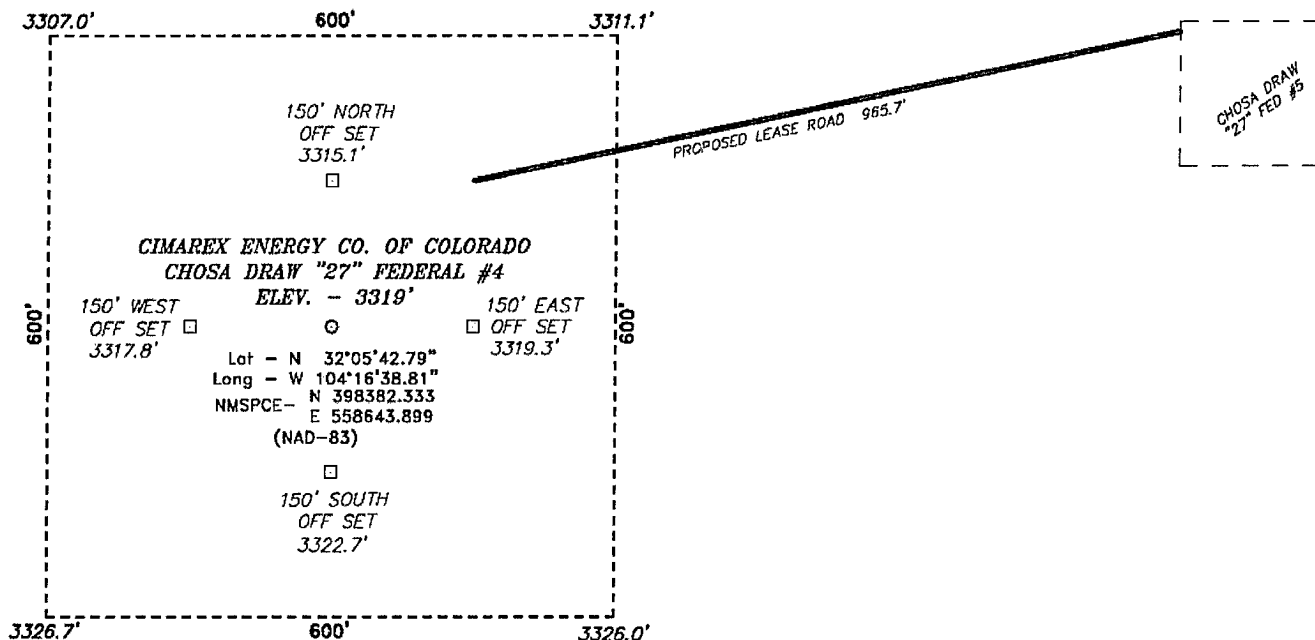
UL or lot No. B	Section 27	Township 25 S	Range 26 E	Lot Idn	Feet from the 330	North/South line NORTH	Feet from the 1720	East/West line EAST	County EDDY
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Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

PROPOSED BOTTOM HOLE LOCATION Lat - N 32°06'25.81" Long - W 104°16'39.12" NMSPCE- N 402729.657 E 558614.951 (NAD-83) RECEIVED FEB 22 2011 NMOCD ARTESIA EOC 801 FSL & 1651 FEL	NM-92160 3309.7' 3308.4' 3322.5' 3322.5' 1650' 1720' B.H. S.L.	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 or has a right to drill this well at this 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> 8/25/2010 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. DATE SURVEYED JUL 14 2010 Signature of Professional Surveyor Certificate No. L. Jones 7977 BASIN SURVEYS
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SECTION 27, TOWNSHIP 25 SOUTH, RANGE 26 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



CIMAREX ENERGY CO. OF COLORADO
CHOSA DRAW "27" FEDERAL #4

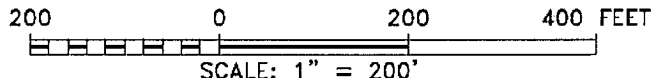
ELEV. - 3319'

150' WEST
OFF SET □
3317.8'

150' EAST
□ OFF SET
3319.3'

Lot - N 32°05'42.79"
Long - W 104°16'38.81"
NMSPCE- N 398382.333
E 558643.899
(NAD-83)

150' SOUTH
OFF SET
3322.7'



Directions to Location:

FROM THE JUNCTION OF JOHN D FOREHAND AND
PRICK PEAR, GO WEST ON PRICK PEAR FOR 1.0
MILES TO LEASE ROAD, ON LEASE ROAD GO WEST
0.7 MILES TO PROPOSED LEASE ROAD.

CIMAREX ENERGY CO. OF COLORADO

REF: CHOSA DRAW "27" FEDERAL #4 / WELL PAD TOPO

THE CHOSA DRAW "27" FEDERAL #4 LOCATED 610'

FROM THE SOUTH LINE AND 1650' FROM THE EAST LINE OF

SECTION 27, TOWNSHIP 25 SOUTH, RANGE 26 EAST,

N.M.P.M., EDDY COUNTY, NEW MEXICO.

BASIN SURVEYS

P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 23082

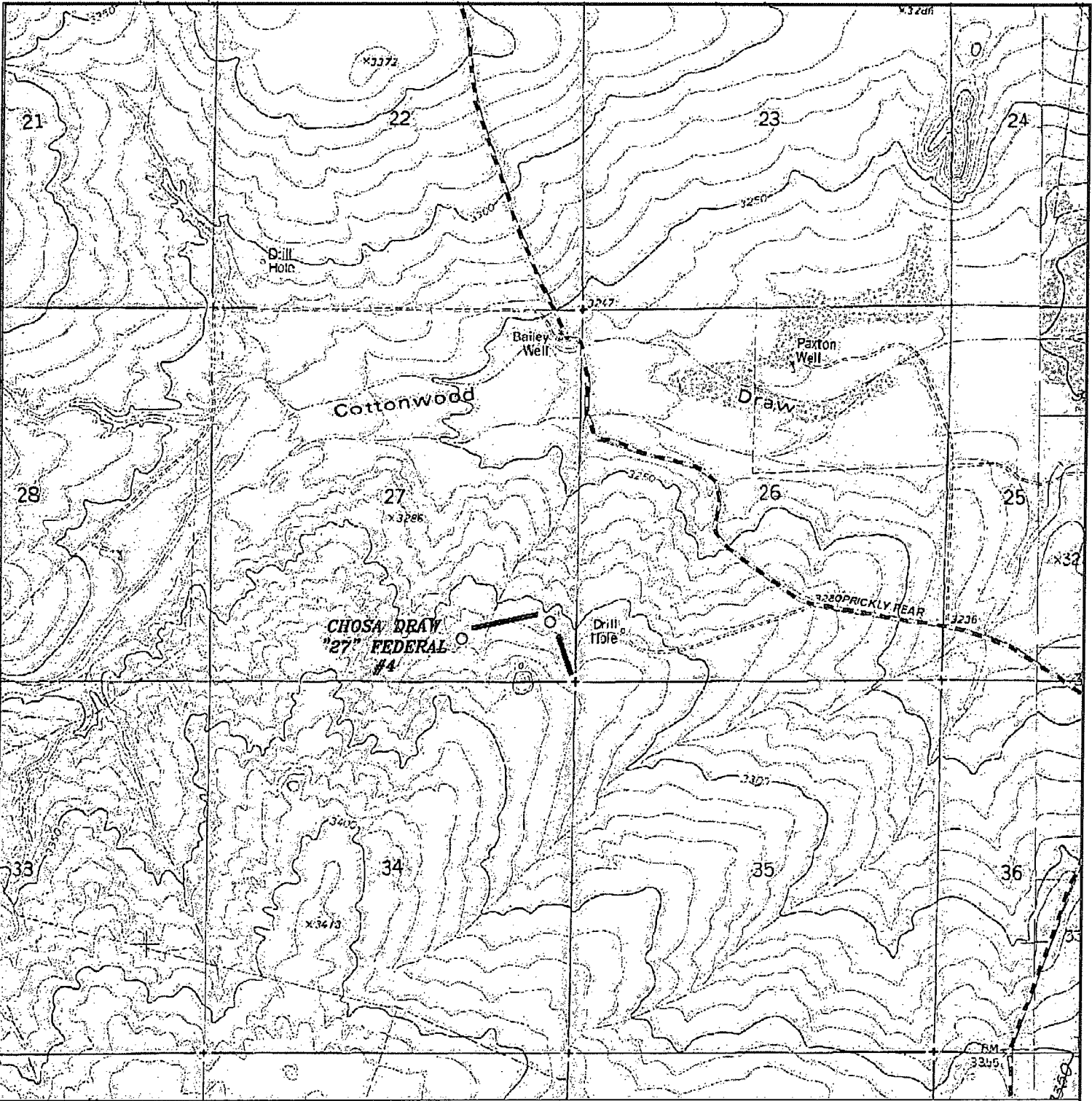
Drawn By: J. SMALL

Date: 07-22-2010

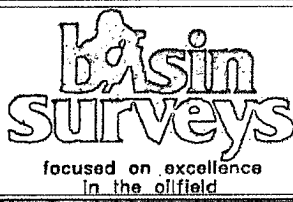
Disk: JMS 23082

Survey Date: 07-14-2010

Sheet 1 of 1 Sheets



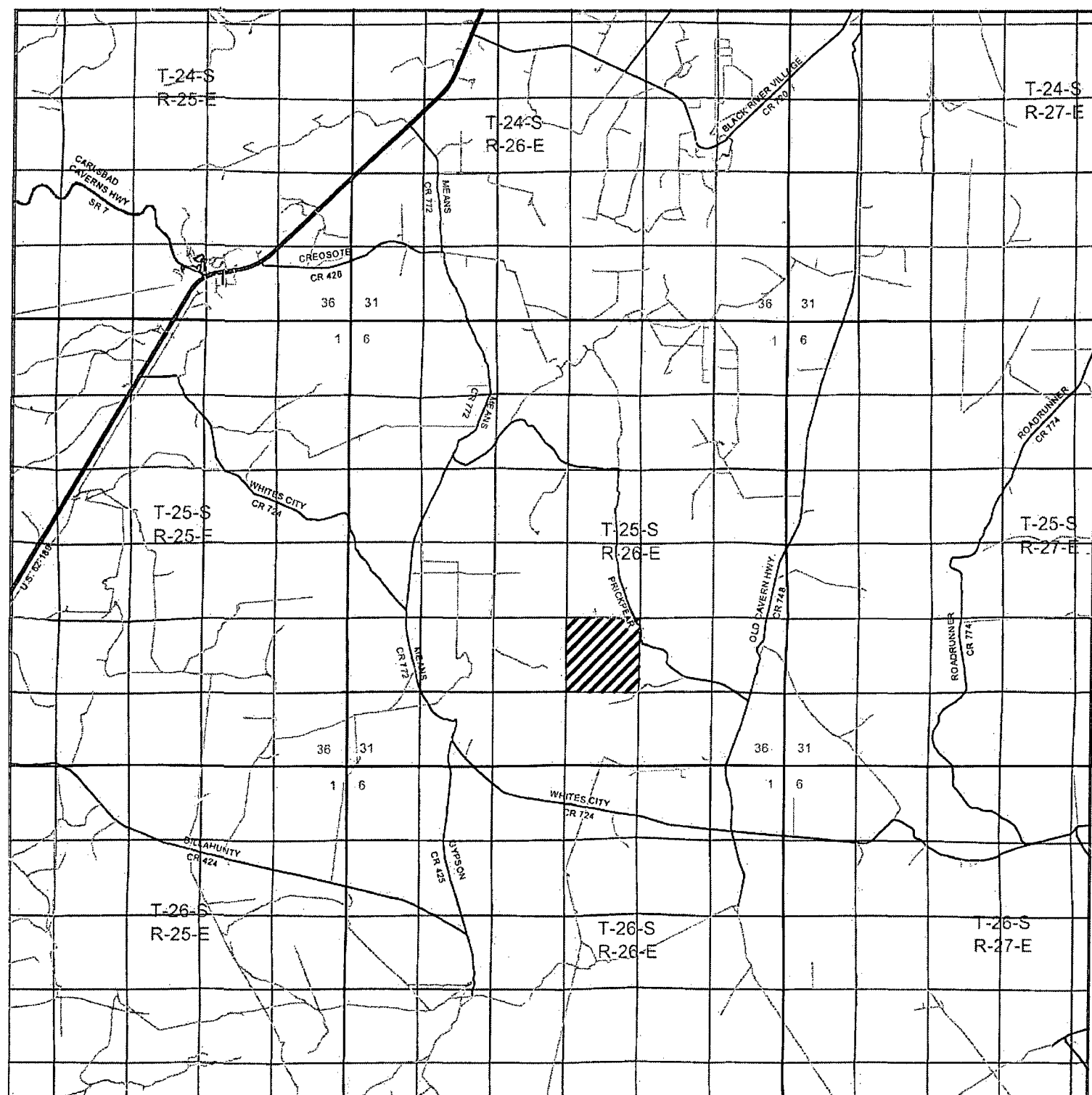
CHOSA DRAW "27" FEDERAL #4
Located 610' FSL and 1650' FEL
Section 27, Township 25 South, Range 26 East,
N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(575) 393-7316 - Office
(575) 392-2206 - Fax
basinsurveys.com

W.O. Number:	JMS 23082
Survey Date:	07-14-2010
Scale:	1" = 2000'
Date:	07-22-2010

**CIMAREX
ENERGY CO.
OF COLORADO**



CHOSA DRAW "27" FEDERAL #4
 Located 610' FSL and 1650' FEL
 Section 27, Township 25 South, Range 26 East,
 N.M.P.M., Eddy County, New Mexico.

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surveys
 focused on excellence
 in the oilfield

P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (575) 393-7316 - Office
 (575) 392-2206 - Fax
 basinsurveys.com

W.O. Number: JMS 23082

Survey Date: 07-14-2010

Scale: 1" = 2 Miles

Date: 07-22-2010

CIMAREX
ENERGY CO.
OF COLORADO

Cimarex Energy Co.

Eddy County (NM83E)

Sec 27-T25S-R26E

Chosa Draw 27 Fed #4

Wellbore #1

Plan: Plan #1

Standard Planning Report

25 August, 2010



Great White Directional Services

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Chosa Draw 27 Fed #4
Company:	Cimarex Energy Co.	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Project:	Eddy County (NM83E)	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Sec 27-T25S-R26E	North Reference:	Grid
Well:	Chosa Draw 27 Fed #4	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project: Eddy County (NM83E)			
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Sec 27-T25S-R26E			
Site Position:		Northing:	398,382.33 usft	Latitude:	32° 5' 42.793 N
From:	Map	Easting:	558,643.90 usft	Longitude:	104° 16' 38.807 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.03 °

Well	Chosa Draw 27 Fed #4					
Well Position	+N/-S	0.0 usft	Northing:	398,382.33 usft	Latitude:	32° 5' 42.793 N
	+E/-W	0.0 usft	Easting:	558,643.90 usft	Longitude:	104° 16' 38.807 W
Position Uncertainty	0.0 usft	Wellhead Elevation:		Ground Level:	0.0 usft	

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2009/02/20	8.16	60.01	48,742

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.62

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,801.0	0.00	0.00	2,801.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,101.3	90.10	359.62	2,992.0	191.3	-1.3	30.00	30.00	0.00	359.62	
7,257.4	90.10	359.62	2,984.7	4,347.3	-28.8	0.00	0.00	0.00	0.00	Chosa Draw Fed #4

Great White Directional Services

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Chosa Draw 27 Fed #4
Company:	Cimarex Energy Co.	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Project:	Eddy County (NM83E)	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Sec 27-T25S-R26E	North Reference:	Grid
Well:	Chosa Draw 27 Fed #4	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,801.0	0.00	0.00	2,801.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP 30°/100 @ 359.62° AZI									
2,810.0	2.70	359.62	2,810.0	0.2	0.0	0.2	30.00	30.00	0.00
2,820.0	5.70	359.62	2,820.0	0.9	0.0	0.9	30.00	30.00	0.00
2,830.0	8.70	359.62	2,829.9	2.2	0.0	2.2	30.00	30.00	0.00
2,840.0	11.70	359.62	2,839.7	4.0	0.0	4.0	30.00	30.00	0.00
2,847.5	13.94	359.62	2,847.0	5.6	0.0	5.6	30.00	30.00	0.00
Cherry Canyon									
2,850.0	14.70	359.62	2,849.5	6.3	0.0	6.3	30.00	30.00	0.00
2,860.0	17.70	359.62	2,859.1	9.0	-0.1	9.0	30.00	30.00	0.00
2,870.0	20.70	359.62	2,868.5	12.3	-0.1	12.3	30.00	30.00	0.00
2,880.0	23.70	359.62	2,877.8	16.1	-0.1	16.1	30.00	30.00	0.00
2,890.0	26.70	359.62	2,886.8	20.4	-0.1	20.4	30.00	30.00	0.00
2,900.0	29.70	359.62	2,895.6	25.1	-0.2	25.1	30.00	30.00	0.00
2,910.0	32.70	359.62	2,904.2	30.3	-0.2	30.3	30.00	30.00	0.00
2,920.0	35.70	359.62	2,912.4	35.9	-0.2	35.9	30.00	30.00	0.00
2,930.0	38.70	359.62	2,920.4	41.9	-0.3	41.9	30.00	30.00	0.00
2,940.0	41.70	359.62	2,928.0	48.4	-0.3	48.4	30.00	30.00	0.00
2,950.0	44.70	359.62	2,935.3	55.2	-0.4	55.2	30.00	30.00	0.00
2,960.0	47.70	359.62	2,942.3	62.4	-0.4	62.5	30.00	30.00	0.00
2,970.0	50.70	359.62	2,948.8	70.0	-0.5	70.0	30.00	30.00	0.00
2,975.1	52.24	359.62	2,952.0	74.0	-0.5	74.0	30.00	30.00	0.00
Cherry Canyon M3									
2,980.0	53.70	359.62	2,954.9	77.9	-0.5	77.9	30.00	30.00	0.00
2,990.0	56.70	359.62	2,960.6	86.1	-0.6	86.1	30.00	30.00	0.00
3,000.0	59.70	359.62	2,965.9	94.6	-0.6	94.6	30.00	30.00	0.00
3,010.0	62.70	359.62	2,970.7	103.4	-0.7	103.4	30.00	30.00	0.00
3,020.0	65.70	359.62	2,975.1	112.4	-0.7	112.4	30.00	30.00	0.00
3,030.0	68.70	359.62	2,978.9	121.6	-0.8	121.6	30.00	30.00	0.00
3,040.0	71.70	359.62	2,982.3	131.0	-0.9	131.0	30.00	30.00	0.00
3,050.0	74.70	359.62	2,985.2	140.6	-0.9	140.6	30.00	30.00	0.00
3,060.0	77.70	359.62	2,987.6	150.3	-1.0	150.3	30.00	30.00	0.00
3,070.0	80.70	359.62	2,989.5	160.1	-1.1	160.1	30.00	30.00	0.00
3,080.0	83.70	359.62	2,990.8	170.0	-1.1	170.0	30.00	30.00	0.00
3,090.0	86.70	359.62	2,991.7	180.0	-1.2	180.0	30.00	30.00	0.00
3,100.0	89.70	359.62	2,992.0	190.0	-1.3	190.0	30.00	30.00	0.00
3,101.3	90.10	359.62	2,992.0	191.3	-1.3	191.3	30.00	30.00	0.00
EOC - Hold to TD									
3,103.2	89.70	359.62	2,992.0	193.2	-1.3	193.2	21.57	-21.57	0.00
M3 TVD Target									
3,200.0	90.10	359.62	2,991.8	290.0	-1.9	290.0	0.41	0.41	0.00
3,300.0	90.10	359.62	2,991.6	390.0	-2.6	390.0	0.00	0.00	0.00
3,400.0	90.10	359.62	2,991.5	490.0	-3.2	490.0	0.00	0.00	0.00
3,500.0	90.10	359.62	2,991.3	590.0	-3.9	590.0	0.00	0.00	0.00
3,600.0	90.10	359.62	2,991.1	690.0	-4.6	690.0	0.00	0.00	0.00
3,700.0	90.10	359.62	2,990.9	790.0	-5.2	790.0	0.00	0.00	0.00
3,800.0	90.10	359.62	2,990.8	890.0	-5.9	890.0	0.00	0.00	0.00
3,900.0	90.10	359.62	2,990.6	990.0	-6.6	990.0	0.00	0.00	0.00
4,000.0	90.10	359.62	2,990.4	1,090.0	-7.2	1,090.0	0.00	0.00	0.00
4,100.0	90.10	359.62	2,990.2	1,190.0	-7.9	1,190.0	0.00	0.00	0.00
4,200.0	90.10	359.62	2,990.1	1,290.0	-8.6	1,290.0	0.00	0.00	0.00
4,300.0	90.10	359.62	2,989.9	1,390.0	-9.2	1,390.0	0.00	0.00	0.00
4,400.0	90.10	359.62	2,989.7	1,490.0	-9.9	1,490.0	0.00	0.00	0.00

Great White Directional Services

Planning Report

Database:	EDM 5000.1 Single User Db.	Local Co-ordinate Reference:	Well Chosa Draw 27 Fed #4
Company:	Cimarex Energy Co.	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Project:	Eddy County (NM83E)	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Sec 27-T25S-R26E	North Reference:	Grid
Well:	Chosa Draw 27 Fed #4	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,500.0	90.10	359.62	2,989.5	1,589.9	-10.5	1,590.0	0.00	0.00	0.00
4,600.0	90.10	359.62	2,989.4	1,689.9	-11.2	1,690.0	0.00	0.00	0.00
4,700.0	90.10	359.62	2,989.2	1,789.9	-11.9	1,790.0	0.00	0.00	0.00
4,800.0	90.10	359.62	2,989.0	1,889.9	-12.5	1,890.0	0.00	0.00	0.00
4,900.0	90.10	359.62	2,988.8	1,989.9	-13.2	1,990.0	0.00	0.00	0.00
5,000.0	90.10	359.62	2,988.7	2,089.9	-13.9	2,090.0	0.00	0.00	0.00
5,100.0	90.10	359.62	2,988.5	2,189.9	-14.5	2,190.0	0.00	0.00	0.00
5,200.0	90.10	359.62	2,988.3	2,289.9	-15.2	2,290.0	0.00	0.00	0.00
5,300.0	90.10	359.62	2,988.1	2,389.9	-15.9	2,390.0	0.00	0.00	0.00
5,400.0	90.10	359.62	2,988.0	2,489.9	-16.5	2,490.0	0.00	0.00	0.00
5,500.0	90.10	359.62	2,987.8	2,589.9	-17.2	2,590.0	0.00	0.00	0.00
5,600.0	90.10	359.62	2,987.6	2,689.9	-17.8	2,690.0	0.00	0.00	0.00
5,700.0	90.10	359.62	2,987.5	2,789.9	-18.5	2,790.0	0.00	0.00	0.00
5,800.0	90.10	359.62	2,987.3	2,889.9	-19.2	2,890.0	0.00	0.00	0.00
5,900.0	90.10	359.62	2,987.1	2,989.9	-19.8	2,990.0	0.00	0.00	0.00
6,000.0	90.10	359.62	2,986.9	3,089.9	-20.5	3,090.0	0.00	0.00	0.00
6,100.0	90.10	359.62	2,986.8	3,189.9	-21.2	3,190.0	0.00	0.00	0.00
6,200.0	90.10	359.62	2,986.6	3,289.9	-21.8	3,290.0	0.00	0.00	0.00
6,300.0	90.10	359.62	2,986.4	3,389.9	-22.5	3,390.0	0.00	0.00	0.00
6,400.0	90.10	359.62	2,986.2	3,489.9	-23.1	3,490.0	0.00	0.00	0.00
6,500.0	90.10	359.62	2,986.1	3,589.9	-23.8	3,590.0	0.00	0.00	0.00
6,600.0	90.10	359.62	2,985.9	3,689.9	-24.5	3,690.0	0.00	0.00	0.00
6,700.0	90.10	359.62	2,985.7	3,789.9	-25.1	3,790.0	0.00	0.00	0.00
6,800.0	90.10	359.62	2,985.5	3,889.9	-25.8	3,890.0	0.00	0.00	0.00
6,900.0	90.10	359.62	2,985.4	3,989.9	-26.5	3,990.0	0.00	0.00	0.00
7,000.0	90.10	359.62	2,985.2	4,089.9	-27.1	4,090.0	0.00	0.00	0.00
7,100.0	90.10	359.62	2,985.0	4,189.9	-27.8	4,190.0	0.00	0.00	0.00
7,200.0	90.10	359.62	2,984.8	4,289.9	-28.5	4,290.0	0.00	0.00	0.00
7,257.4	90.10	359.62	2,984.7	4,347.3	-28.8	4,347.4	0.00	0.00	0.00
TD at 7257.4 - Chosa Draw Fed #4 PBHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target	0.00	0.01	2,982.0	4,347.3	-28.9	402,729.66	558,614.95	32° 6' 25.815 N	104° 16' 39.117 W
- Shape									
Chosa Draw Fed #4 F									
- plan misses target center by 2.7usft at 7257.4usft MD (2984.7 TVD, 4347.3 N, -28.8 E)									
- Point									

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,887.0	1,887.0	Ramsey Ss		0.00	
2,847.5	2,847.0	Cherry Canyon		0.00	
2,975.1	2,952.0	Cherry Canyon M3		0.00	
3,103.2	2,992.0	M3 TVD Target		0.00	

Great White Directional Services

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Chosa Draw 27 Fed #4
Company:	Cimarex Energy Co.	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Project:	Eddy County (NM83E)	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Sec 27-T25S-R26E	North Reference:	Grid
Well:	Chosa Draw 27 Fed #4	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,801.0	2,801.0	0.0	0.0	KOP 30°/100 @ 359.62° AZI
3,101.3	2,992.0	191.3	-1.3	EOC - Hold to TD
7,257.4	2,984.7	4,347.3	-28.8	TD at 7257.4

Cimarex Energy Co.

Project: Elby County (NABSE)
Site: Sec 27, T2S, R26E
Well: Chosa Draw 27 Fed #4
Wellbore: Wellbore #1
Design: Plan #1

WELL DETAILS: Chosa Draw 27 Fed #4

+N/-S 0.0 +E/-W 0.0 Northing 398382.33 Easting 558643.90
Longitude 104° 16' 38.807 W
Latitude 32° 5' 42.793 N
SHL: 610' FSL / 1650' FEL
BHL: 330' FNL / 1720' FEL



Azinuths to Grid North
Total Correction: 8.13°
Magnetic Field
Strength: 48.72, 10.01
Dip Angle: 60.01°
Date: 2009/02/20
Model: IGRF2005.10

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
Chosa Draw Fed #4 PBHL	2982.0	4347.3	-28.9	402729.66	558614.95

PLAN DETAILS

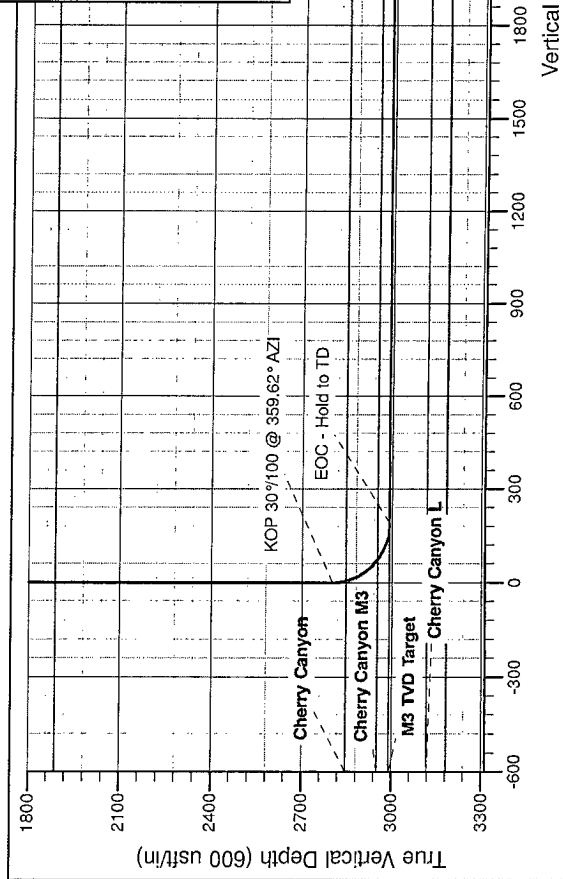
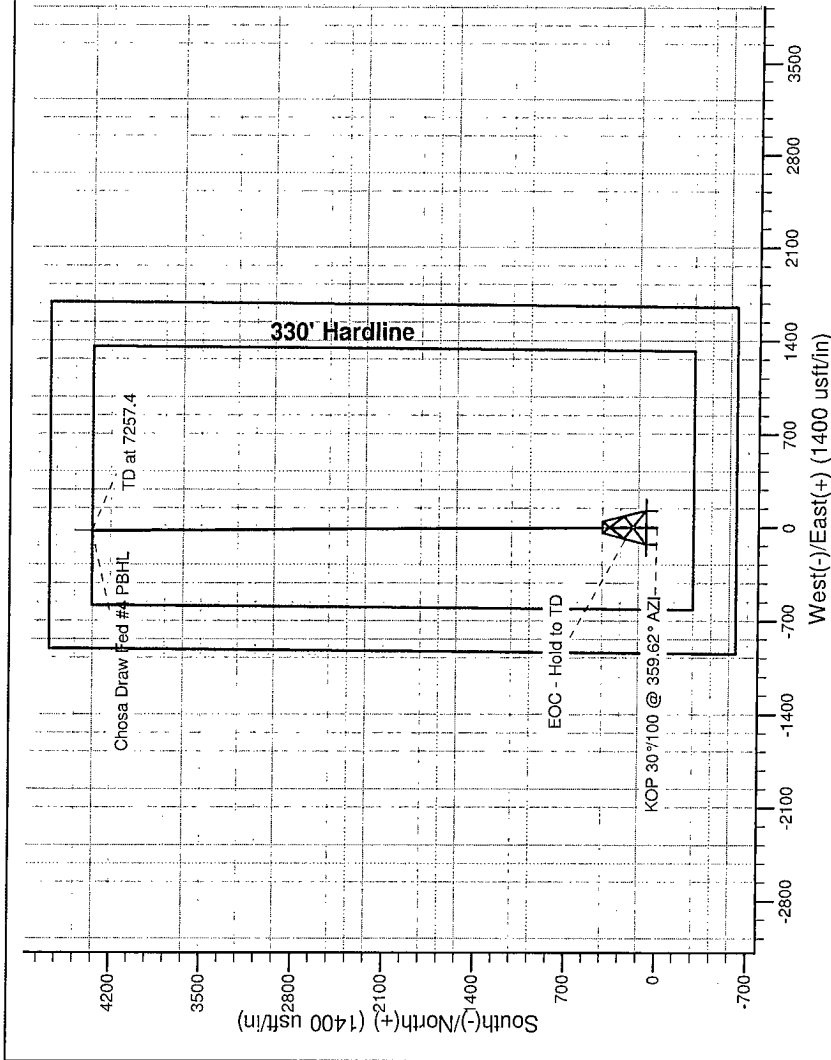
VD	Inc	Azi	TVD	+N/-S	+E/-W	TFace	VFace	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0	0.0
2801.0	0.00	0.00	2801.0	0.0	0.0	0.00	0.0	0.0
3101.3	90.10	359.62	2992.0	191.3	-1.3	30.00	359.62	191.3
7257.4	90.10	359.62	2984.7	4347.3	-28.8	0.00	4347.4	Chosa Draw Fed #4 PBHL

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VFace	VFace	Departure	Annotation
2801.0	2801.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	KOP 30°/100 @ 359.62° AZI
2992.0	3101.3	90.10	359.62	191.3	-1.3	191.3	191.3	191.3	EOC - Hold to TD
2984.7	7257.4	90.10	359.62	4347.3	-28.8	4347.4	4347.4	4347.4	TD at 7257.4

FORMATION TOP DETAILS

TVDPath	MDPath	Formation	DipAngle	DipDir
1887.0	1887.0	Ramsey Ss	0.00	
2847.0	2847.5	Cherry Canyon	0.00	
2952.0	2975.1	Cherry Canyon M3	0.00	
2992.0	3103.2	M3 TVD Target	0.00	



Received 9-10-10 by email
J Fast

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 Department

Form C-102
Revised October 15, 2009

Submit one copy to appropriate
District Office

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number		Pool Code	Pool Name
Property Code	Property Name CHOSA DRAW "27" FEDERAL		Well Number 4
OCRID No.	Operator Name CIMAREX ENERGY CO. OF COLORADO		Elevation 3319'

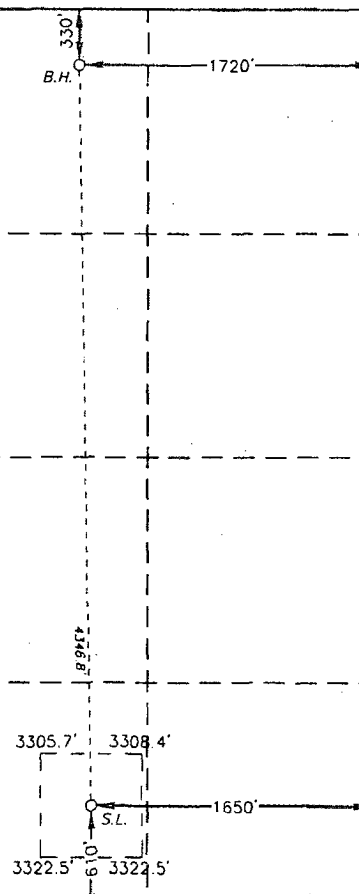
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	27	25 S	26 E		610	SOUTH	1650	EAST	EDDY

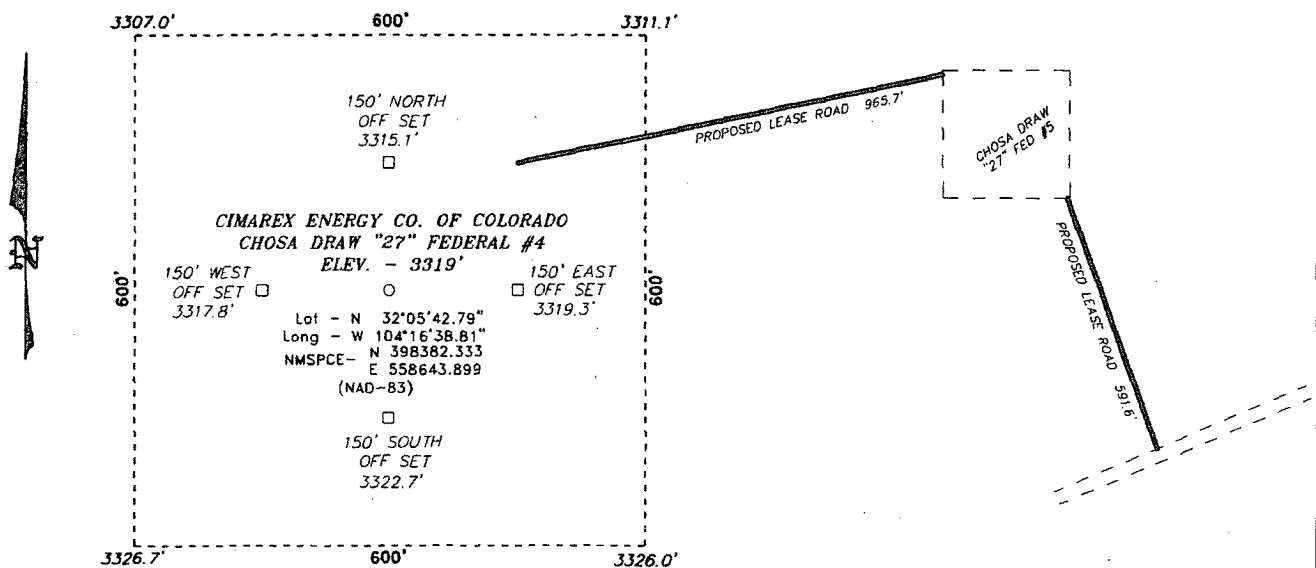
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	27	25 S	26 E		330	NORTH	1720	EAST	EDDY
Dedicated Acres		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

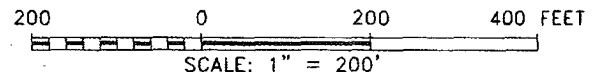
PROPOSED BOTTOM HOLE LOCATION Lat - N 32°06'25.81" Long - W 104°16'39.12" NMSPCE- N 402729.657 E 558614.951 (NAD-83)		OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this 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. Signature _____ Date _____ 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. Date Surveyed <u>July 14, 2010</u> Signature <u>[Signature]</u> Professional Surveyor Certificate No. <u>7977</u> Name <u>L. Jones</u> BASIN SURVEYS

SECTION 27, TOWNSHIP 25 SOUTH, RANGE 26 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



Directions to Location:

FROM THE JUNCTION OF JOHN D FOREHAND AND PRICK PEAR, GO WEST ON PRICK PEAR FOR 1.0 MILES TO LEASE ROAD, ON LEASE ROAD GO WEST 0.7 MILES TO PROPOSED LEASE ROAD.



CIMAREX ENERGY CO. OF COLORADO

REF: CHOSA DRAW "27" FEDERAL #4 / WELL PAD TOPO

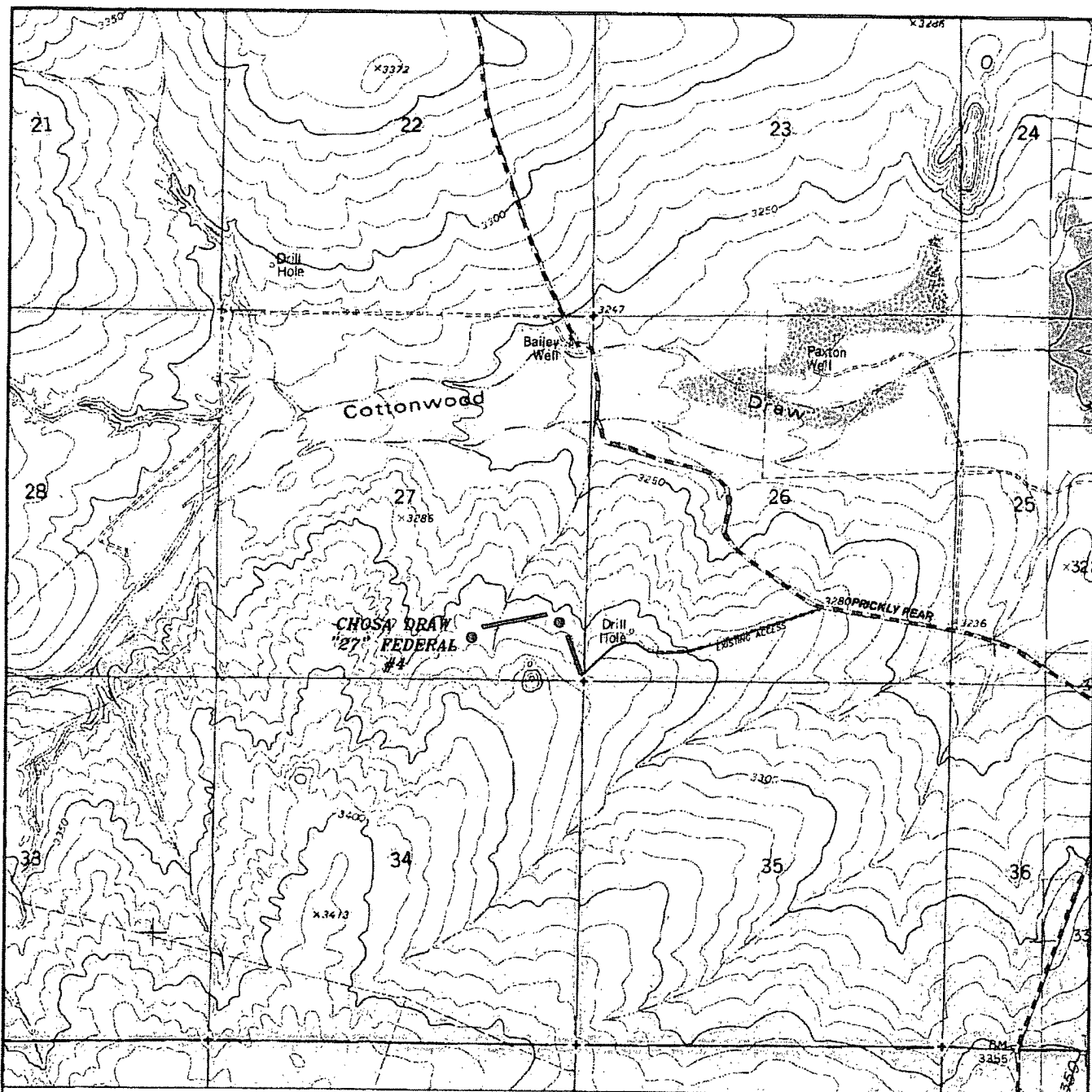
THE CHOSA DRAW "27" FEDERAL #4 LOCATED 610'
FROM THE SOUTH LINE AND 1650' FROM THE EAST LINE OF
SECTION 27, TOWNSHIP 25 SOUTH, RANGE 26 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

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

W.O. Number: 23082 Drawn By: J. SMALL

Date: 07-22-2010 Disk: JMS 23082

Survey Date: 07-14-2010 Sheet 1 of 1 Sheets



CHOSA DRAW "27" FEDERAL #4
 Located 610' FSL and 1650' FEL
 Section 27, Township 25 South, Range 26 East,
 N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (575) 393-7316 - Office
 (575) 392-2206 - Fax
basinsurveys.com

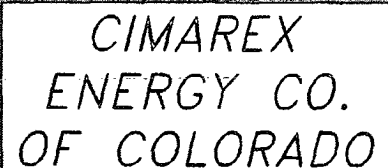
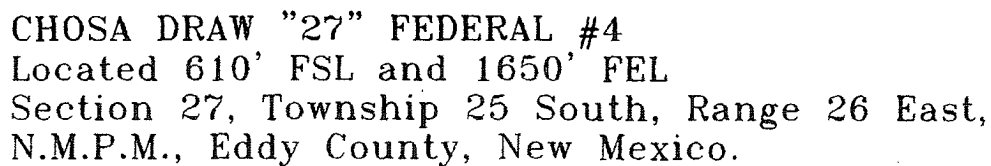
W.O. Number. JMS 23082

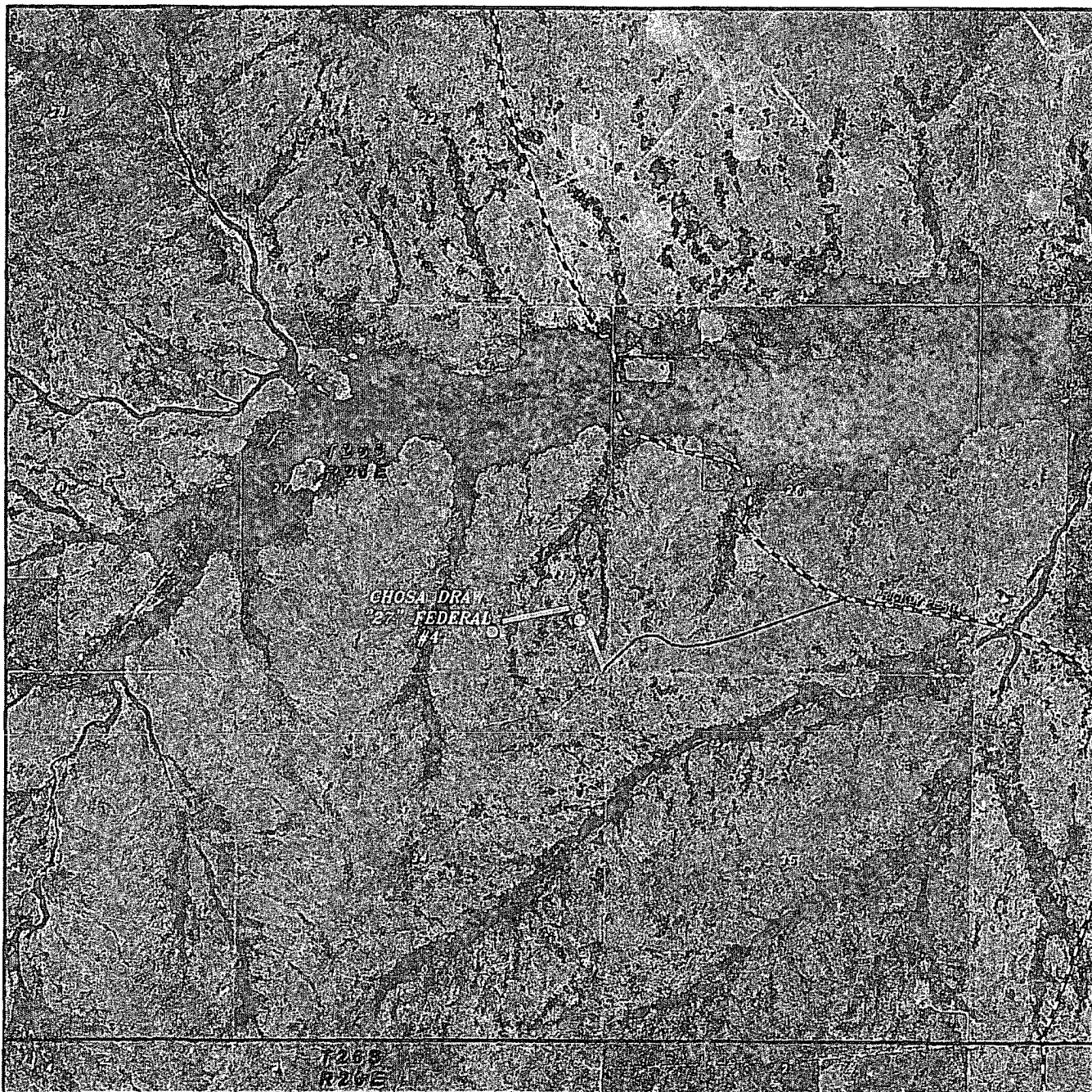
Survey Date: 07-14-2010

Scale: 1" = 2000'

Date: 07-22-2010

CIMAREX
 ENERGY CO.
 OF COLORADO





CHOSA DRAW "27" FEDERAL #4
 Located 610' FSL and 1650' FEL
 Section 27, Township 25 South, Range 26 East,
 N.M.P.M., Eddy County, New Mexico.

basin
surveys
 focused on excellence
 in the oilfield

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 Hobbs, New Mexico 88241
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 basinsurveys.com

W.O. Number: JMS 23082

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YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND

CIMAREX
 ENERGY CO.
 OF COLORADO