

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., 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

Form C-103
May 27, 2004

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

WELL API NO. 30-015-37496 ✓	
5. Indicate Type of Lease STATE ☒ FEE ☐	
6. State Oil & Gas Lease No.	

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other ☐

2. Name of Operator

Cimarex Energy Co. of Colorado ✓

3. Address of Operator

600 N. Marienfeld, Ste. 600; Midland, TX 79701

4. Well Location

SHL Unit Letter A : 990 feet from the North line and 660 feet from the East line
Section 16 Township 26E Range 26E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3390' GR

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type Depth to Groundwater Distance from nearest fresh water well Distance from nearest surface water

Pit Liner Thickness: Below-Grade Tank: Volume bbls; Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐
OTHER: ☐	OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐	ALTERING CASING ☐
COMMENCE DRILLING OPNS ☐	P AND A ☐
CASING/CEMENT JOB ☐	
OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

This well was permitted as a Morrow test. Cimarex has drilled a vertical hole to 10890 and set 13 3/8" surface, 9 5/8" intermediate, and 7" production casing and cemented all strings. No completion/stimulation was attempted on the well. Cimarex now wishes to change plans to drill a lateral Wolfcamp portion as shown below.

- Set 25 sx, 100' cement plug from 10772-10872 (7" casing shoe).
- Set kick off plug @ 9079 w/ 5' sand on top. Set whipstock @ 9074. Cut window in 7" casing from 9059-9069. Kick off 6 1/8" lateral @ 9069. Drill to TD @ 13228 MD, 9316 TVD.
- Set 4 1/2" 11.6# P110 casing from TOL @ 8764 to TD. Use LTC from 8764 (TOL)-9069 (KOP), BTC from 9069-9521 (EOC), and LTC from 9521-13228 (TD).
- Cement liner with 470 sx Versacem H, 14.5 wgt., 1.22 Yield.
- Complete as Wolfcamp lateral.

Please see attached C-102, preliminary directional plan, and WBD.

RECEIVED

MAR 02 2011

NMOCD ARTESIA

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Natalie Krueger TITLE Regulatory DATE March 1, 2011

Type or print name Natalie Krueger email address: nkrueger@cimarex.com Telephone No. 432-620-1936

For State Use Only

APPROVED BY: [Signature] TITLE Geologist DATE 3/8/2011

Conditions of Approval (if any):

DHC-4278

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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 30-015-37496	Pool Code	Pool Name Wolfcamp Wildcat
Property Code 37991	Property Name JUMPING SPRING "16" STATE COM	Well Number 1
GRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3390'

Surface Location

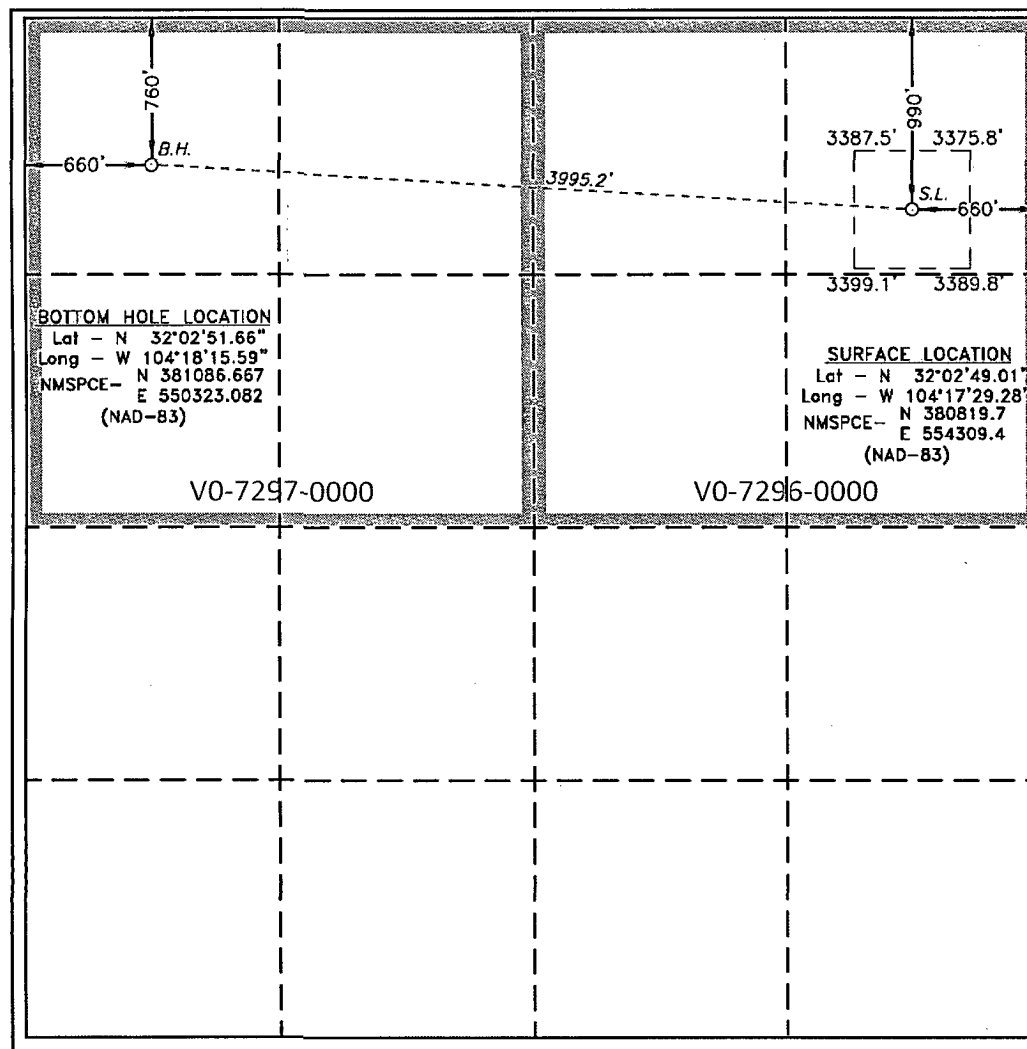
UL or lot No. A	Section 16	Township 26 S	Range 26 E	Lot Idn	Feet from the 990	North/South line NORTH	Feet from the 660	East/West line EAST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No. D	Section 16	Township 26 S	Range 26 E	Lot Idn	Feet from the 760	North/South line NORTH	Feet from the 660	East/West line WEST	County EDDY
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Dedicated Acres 320	Joint or Infill	Consolidation Code P	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



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.

Zeno Farris 3/1/2011
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.

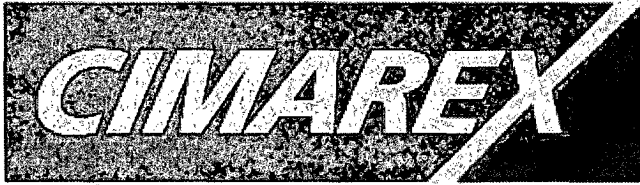
DECEMBER 31, 2009

Date Surveyed
Signature of Professional Surveyor

Professional Surveyor
7977

No. 22108
Certificate No. Gary L. Jones 7977

Basin Surveys



Cimarex Energy Co.

Eddy County (NM83E)

Sec 16 - T26S - R26E

Jumping Spring 16 State Com #1

Wellbore #1

Plan: Plan #1

Standard Planning Report

01 February, 2011

A handwritten signature, possibly "WJ", is written in black ink at the bottom right of the page.



Great White Directional Services

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Jumping Spring 16 State Com #1
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 16 - T26S - R26E	North Reference:	Grid
Well:	Jumping Spring 16 State Com #1	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 16 - T26S - R26E		
Site Position:		Northing:	378,297.60 usft
From:	Map	Easting:	551,505.80 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 24.057 N
		Longitude:	104° 18' 1.861 W
		Grid Convergence:	0.02 °

Well	Jumping Spring 16 State Com #1					
Well Position	+N/-S	2,522.1 usft	Northing:	380,819.70 usft	Latitude:	32° 2' 49.007 N
	+E/-W	2,803.6 usft	Easting:	554,309.40 usft	Longitude:	104° 17' 29.276 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	11/23/10	7.96	59.93	48,545

Design		Plan #1		
Audit Notes:				
Version:		Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	273.83

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,068.5	0.00	0.00	9,068.5	0.0	0.0	0.00	0.00	0.00	0.00	
9,521.5	90.60	273.83	9,355.0	19.3	-288.8	20.00	20.00	0.00	273.83	
13,227.5	90.60	273.83	9,316.2	266.9	-3,986.3	0.00	0.00	0.00	0.00	Jumping Spring #1 PE



Great White Directional Services

Planning Report

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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 16 - T26S - R26E	North Reference:	Grid
Well:	Jumping Spring 16 State Com #1	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 (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,068.5	0.00	0.00	9,068.5	0.0	0.0	0.0	0.00	0.00	0.00
9,075.0	1.30	273.83	9,075.0	0.0	-0.1	0.1	20.00	20.00	0.00
9,100.0	6.30	273.83	9,099.9	0.1	-1.7	1.7	20.00	20.00	0.00
9,122.3	10.76	273.83	9,122.0	0.3	-5.0	5.0	20.00	20.00	0.00
Wolfcamp C									
9,125.0	11.30	273.83	9,124.6	0.4	-5.5	5.6	20.00	20.00	0.00
9,150.0	16.30	273.83	9,148.9	0.8	-11.5	11.5	20.00	20.00	0.00
9,175.0	21.30	273.83	9,172.6	1.3	-19.5	19.6	20.00	20.00	0.00
9,200.0	26.30	273.83	9,195.4	2.0	-29.6	29.7	20.00	20.00	0.00
9,225.0	31.30	273.83	9,217.3	2.8	-41.6	41.7	20.00	20.00	0.00
9,250.0	36.30	273.83	9,238.1	3.7	-55.5	55.6	20.00	20.00	0.00
9,270.3	40.35	273.83	9,254.0	4.6	-68.0	68.2	20.00	20.00	0.00
Wolfcamp D									
9,275.0	41.30	273.83	9,257.6	4.8	-71.1	71.3	20.00	20.00	0.00
9,300.0	46.30	273.83	9,275.6	5.9	-88.4	88.6	20.00	20.00	0.00
9,325.0	51.30	273.83	9,292.1	7.2	-107.1	107.4	20.00	20.00	0.00
9,350.0	56.30	273.83	9,306.8	8.5	-127.2	127.5	20.00	20.00	0.00
9,375.0	61.30	273.83	9,319.8	9.9	-148.6	148.9	20.00	20.00	0.00
9,400.0	66.30	273.83	9,330.8	11.4	-170.9	171.3	20.00	20.00	0.00
9,425.0	71.30	273.83	9,339.9	13.0	-194.2	194.6	20.00	20.00	0.00
9,450.0	76.30	273.83	9,346.8	14.6	-218.1	218.6	20.00	20.00	0.00
9,475.0	81.30	273.83	9,351.7	16.2	-242.6	243.1	20.00	20.00	0.00
9,500.0	86.30	273.83	9,354.4	17.9	-267.4	268.0	20.00	20.00	0.00
9,521.0	90.50	273.83	9,355.0	19.3	-288.3	289.0	20.00	20.00	0.00
EOC - Hold to TD									
9,521.5	90.60	273.83	9,355.0	19.3	-288.8	289.5	20.00	20.00	0.00
9,600.0	90.60	273.83	9,354.1	24.6	-367.2	368.0	0.00	0.00	0.00
9,700.0	90.60	273.83	9,353.1	31.3	-466.9	468.0	0.00	0.00	0.00
9,800.0	90.60	273.83	9,352.0	37.9	-566.7	568.0	0.00	0.00	0.00
9,900.0	90.60	273.83	9,351.0	44.6	-666.5	668.0	0.00	0.00	0.00
10,000.0	90.60	273.83	9,350.0	51.3	-766.2	768.0	0.00	0.00	0.00
10,100.0	90.60	273.83	9,348.9	58.0	-866.0	867.9	0.00	0.00	0.00
10,200.0	90.60	273.83	9,347.9	64.7	-965.8	967.9	0.00	0.00	0.00
10,300.0	90.60	273.83	9,346.8	71.3	-1,065.6	1,067.9	0.00	0.00	0.00
10,400.0	90.60	273.83	9,345.8	78.0	-1,165.3	1,167.9	0.00	0.00	0.00
10,500.0	90.60	273.83	9,344.7	84.7	-1,265.1	1,267.9	0.00	0.00	0.00
10,600.0	90.60	273.83	9,343.7	91.4	-1,364.9	1,367.9	0.00	0.00	0.00
10,700.0	90.60	273.83	9,342.6	98.1	-1,464.6	1,467.9	0.00	0.00	0.00
10,800.0	90.60	273.83	9,341.6	104.7	-1,564.4	1,567.9	0.00	0.00	0.00
10,900.0	90.60	273.83	9,340.5	111.4	-1,664.2	1,667.9	0.00	0.00	0.00
11,000.0	90.60	273.83	9,339.5	118.1	-1,763.9	1,767.9	0.00	0.00	0.00
11,100.0	90.60	273.83	9,338.4	124.8	-1,863.7	1,867.9	0.00	0.00	0.00
11,200.0	90.60	273.83	9,337.4	131.4	-1,963.5	1,967.9	0.00	0.00	0.00
11,300.0	90.60	273.83	9,336.3	138.1	-2,063.3	2,067.9	0.00	0.00	0.00
11,400.0	90.60	273.83	9,335.3	144.8	-2,163.0	2,167.9	0.00	0.00	0.00
11,500.0	90.60	273.83	9,334.2	151.5	-2,262.8	2,267.9	0.00	0.00	0.00
11,600.0	90.60	273.83	9,333.2	158.2	-2,362.6	2,367.9	0.00	0.00	0.00
11,700.0	90.60	273.83	9,332.2	164.8	-2,462.3	2,467.9	0.00	0.00	0.00
11,800.0	90.60	273.83	9,331.1	171.5	-2,562.1	2,567.9	0.00	0.00	0.00
11,900.0	90.60	273.83	9,330.1	178.2	-2,661.9	2,667.8	0.00	0.00	0.00
12,000.0	90.60	273.83	9,329.0	184.9	-2,761.7	2,767.8	0.00	0.00	0.00
12,100.0	90.60	273.83	9,328.0	191.6	-2,861.4	2,867.8	0.00	0.00	0.00
12,200.0	90.60	273.83	9,326.9	198.2	-2,961.2	2,967.8	0.00	0.00	0.00



Great White Directional Services

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Jumping Spring 16 State Com #1
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.16 - T26S - R26E	North Reference:	Grid
Well:	Jumping Spring 16 State Com #1	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 (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,300.0	90.60	273.83	9,325.9	204.9	-3,061.0	3,067.8	0.00	0.00	0.00
12,400.0	90.60	273.83	9,324.8	211.6	-3,160.7	3,167.8	0.00	0.00	0.00
12,500.0	90.60	273.83	9,323.8	218.3	-3,260.5	3,267.8	0.00	0.00	0.00
12,600.0	90.60	273.83	9,322.7	225.0	-3,360.3	3,367.8	0.00	0.00	0.00
12,700.0	90.60	273.83	9,321.7	231.6	-3,460.1	3,467.8	0.00	0.00	0.00
12,800.0	90.60	273.83	9,320.6	238.3	-3,559.8	3,567.8	0.00	0.00	0.00
12,900.0	90.60	273.83	9,319.6	245.0	-3,659.6	3,667.8	0.00	0.00	0.00
13,000.0	90.60	273.83	9,318.5	251.7	-3,759.4	3,767.8	0.00	0.00	0.00
13,100.0	90.60	273.83	9,317.5	258.4	-3,859.1	3,867.8	0.00	0.00	0.00
13,200.0	90.60	273.83	9,316.4	265.0	-3,958.9	3,967.8	0.00	0.00	0.00
13,227.0	90.60	273.83	9,316.2	266.8	-3,985.9	3,994.8	0.00	0.00	0.00
TD @ 13227.5									
13,227.5	90.60	273.83	9,316.2	266.9	-3,986.3	3,995.2	0.00	0.00	0.00

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									
- Shape									
Jumping Spring #1 PBH	0.00	0.00	9,315.0	267.0	-3,986.3	381,086.67	550,323.08	32° 2' 51.662 N	104° 18' 15.593 W
- plan misses target center by 1.2usft at 13227.5usft MD (9316.2 TVD, 266.9 N, -3986.3 E)									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,038.0	1,038.0	Top Salt		0.00		
1,595.0	1,595.0	Base Salt		0.00		
1,793.0	1,793.0	Delaware		0.00		
2,819.0	2,819.0	Cherry Canyon		0.00		
3,850.0	3,850.0	Brushy Canyon		0.00		
5,339.0	5,339.0	Bone Spring		0.00		
5,479.0	5,479.0	Bone Spring "A" Shale		0.00		
5,796.0	5,796.0	Bone Spring "C" Shale		0.00		
6,248.0	6,248.0	1st Bone Spring Ss		0.00		
6,799.0	6,799.0	2nd Bone Spring Ss		0.00		
7,551.0	7,551.0	2nd Lower BS Ss Lower		0.00		
8,072.0	8,072.0	3rd Bone Spring Ss		0.00		
8,400.0	8,400.0	Wolfcamp		0.00		
8,973.0	8,973.0	Wolfcamp B		0.00		
9,122.3	9,122.0	Wolfcamp C		0.00		
9,270.3	9,254.0	Wolfcamp D		0.00		



Great White Directional Services
Planning Report

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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 16 - T26S - R26E	North Reference:	Grid
Well:	Jumping Spring 16 State Com #1	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)	
9,068.0	9,068.0	0.0	0.0	KOP 20/100 DLS @ 273 AZI
9,521.0	9,355.0	19.3	-288.3	EOC - Hold to TD
13,227.0	9,316.2	266.8	-3,985.9	TD @ 13227.5



WELL DETAILS: Jumping Spring 16 State Com #1

+N/-S +E/-W Northing Easting Longitude
0.0 0.0 380819.70 554309.40 32° 2' 49.007 N 104° 17' 29.276 W
SHL: 990' FNL / 660' FEL
BHL: 760' FNL / 660' FWL

Project: Eddy County (NM83E)

Site: Sec 16 - T26S - R28E

Well: Jumping Spring 16 State Com #1

Wellbore: Wellbore #1

Design: Plan #1

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
Jumping Spring #1 PBHL	9315.0	267.0	-3986.3	381086.67	550323.08

PLAN DETAILS

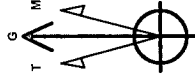
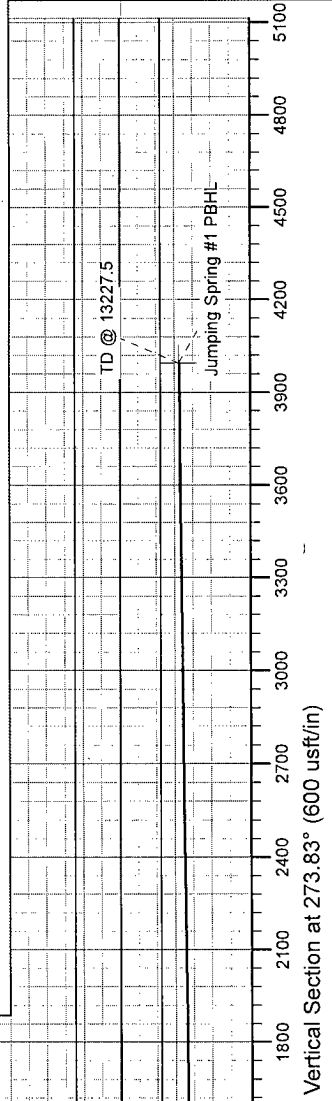
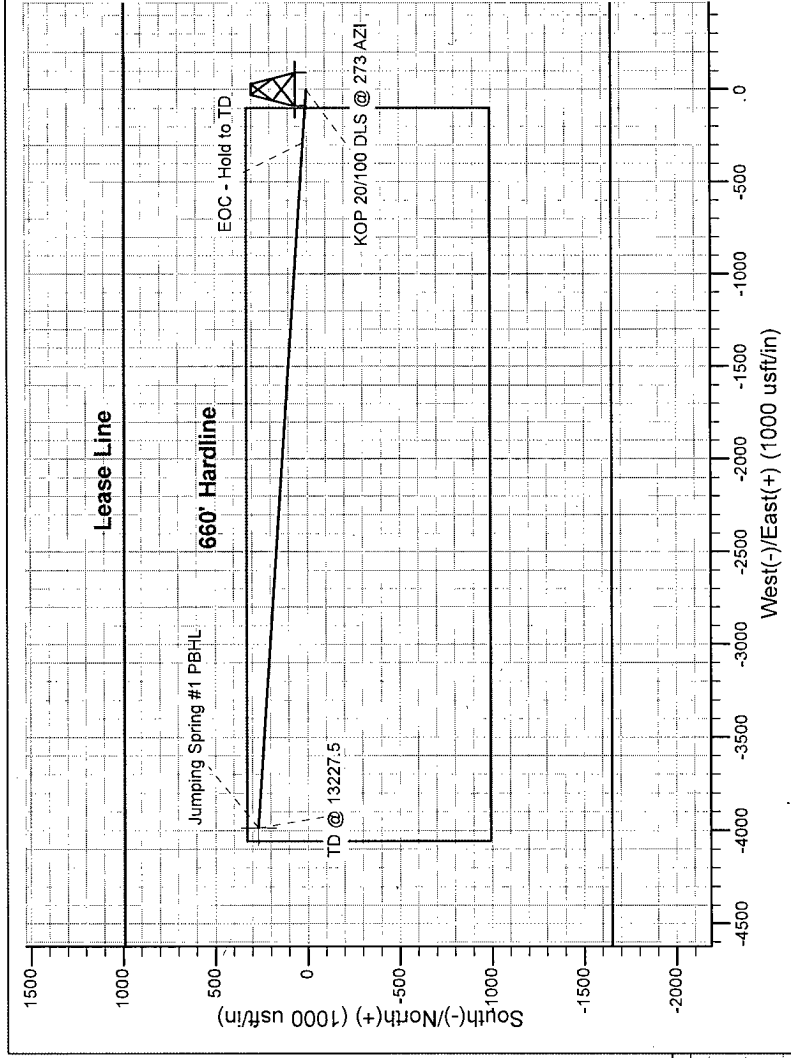
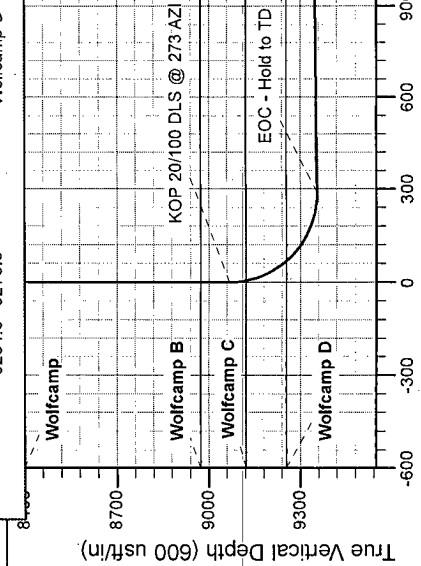
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.00.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0
9088.5	0.00	0.00	9088.5	0.0	0.0	0.00	0.00	0.0	0.0
9521.590	60273.83	9355.0	19.3	-288.8	20.00273.83	289.5			
14227.590	60273.83	9316.2	266.9	-3986.3	0.00	0.003995.2			Jumping Spring #1 PBHL

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VS@Departure	Annotation
9068.0	9068.0	0.00	0.00	0.0	0.0	0.0	KOP 20/100 DLS @ 273 AZI
9355.0	9521.0	90.50	273.83	19.3	-288.3	289.0	EOC - Hold to TD
9316.2	13227.0	90.60	273.83	266.8	-3985.9	3994.8	TD @ 13227.5

FORMATION TOP DETAILS

TVD@Path	Formation
1038.0	Top Salt
1595.0	Base Salt
1793.0	Delaware
2819.0	Cherry Canyon
3850.0	Brushy Canyon
5339.0	Bone Spring
5479.0	Bone Spring "A" Shale
5796.0	Bone Spring "C" Shale
6248.0	1st Bone Spring Ss
6799.0	2nd Bone Spring Ss
7551.0	2nd Lower BS Ss Lower
8072.0	3rd Bone Spring Ss
8400.0	Wolfcamp
8973.0	Wolfcamp B
9122.0	Wolfcamp C
9254.0	Wolfcamp D



Azimuths to Grid North

Total Correction: 7.93°

Magnetic Field

Strength: 48544.75nT

Dip Angle: 59.93°

Date: 11/23/2010

Model: IGRF200510