

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

2. Name of Operator

Cimarex Energy Co. of Colorado

3a. Address

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

3b. Phone No. (include area code)

432-571-7800

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

660 FSL & 1980 FEL
6-25S-26E

5. Lease Serial No.

NM-28172

6. If Indian, Allottee or Tribe Name

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

Pending

8. Well Name and No.

Black Magic 6 Com No. 2

9. API Well No.

30-015-34523

10. Field and Pool, or Exploratory Area *96403*

~~Bone Spring Wildcat~~ *BONE SPRING*

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

☐ 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 Recomplete

horizontally in Bone Spring

(plug Morrow)

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 recomplete 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 recompletion 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.)

The Black Magic 6 Com 2 was completed in the Morrow in 10/2006 and is now SI for evaluation (never produced). CIBP & 20' cmt @ 10455 over Atoka perms @ 10515-10522 and CIBP & 10' cmt @ 10850 over Atoka perms @ 10896-10900 and CIBP & 15' cmt @ 11500 over Morrow perms @ 11525-11586. Cimarex proposes to recomplete laterally to Bone Spring as shown below:

- DO 2 Atoka plugs. Pump 50 sx Class H cmt on top of Morrow CIBP @ 11500. Re-set Atoka plug @ 10455' and spot 25 sx Class H plug over Atoka perms. Pump a 190' Class H Wolfcamp plug from 8235-8425.
- TOH w/ tbg and pkr. Set CBP @ 7310. GIH w/ whipstock. Top of whipstock @ 7281, bottom of window @ 7289.
- Kick off 4 1/2" lateral @ 7293. Drill to EOC @ 7659 MD, 7522 TVD then to TD @ 9052 MD, 7472 TVD.
- Install PEAK 2 1/2" 6.5# L-80 completion liner. TOL @ 7193. Request 100' tie back in order to set sub-pump as deep as possible.
- Install sub pump and turn to production as a Bone Spring oil well.

Please see attached plat, wellbore diagram, and preliminary directional plan.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

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

Name (Printed/Typed)

Natalie Krueger

Signature

Title

Regulatory

Date

November 8, 2010

RECEIVED

JAN 06 2011

NMOCD ARTESIA

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

JAN 4 2011

/s/ Dustin Winkler

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)

State of New Mexico

DISTRICT I

1625 N. FRENCH DR. HOBBES, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

Revised JUNE 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT III

1000 Rio Brazos Ed., Aztec, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-34523	Pool Code 96403	Pool Name Bone Spring Wildcat
Property Code 35027	Property Name BLACK MAGIC 6 COM	Well Number 2
OGRID No. 162683	Operator Name Cimarex Energy Co. of Colorado	Elevation 3440'

Surface Location

UI or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	6	25-S	26-E		660	SOUTH	1980	EAST	EDDY

Bottom Hole Location If Different From Surface

UI or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Lot 6	6	25-S	26-E		2250	SOUTH	330	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
200		C	

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

<p>LOT 4</p> <p>LOT 3</p> <p>LOT 2</p> <p>LOT 5</p> <p>LOT 6</p> <p>LOT 7</p> <p>GEODETIC COORDINATES NAD 27 NME Y=419439.7 N X=500993.5 E LAT.=32°09'11.36" N LONG.=104°19'48.44" W</p> <p>NM-28172</p> <p>3414.6'</p> <p>3428.7'</p> <p>3438.2'</p> <p>3440.2'</p> <p>1980'</p>	<p>RECEIVED</p> <p>JAN 06 2011</p> <p>NMOCD ARTESIA</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Natalie Krueger</i> Signature Natalie Krueger Printed Name Regulatory Analyst Title 11/8/2010 Date</p> <p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>NOVEMBER 1, 2005</p> <p>Date Surveyed NOV 11/15/05 JR</p> <p>Signature & Seal of Professional Surveyor RONALD S. EDSON NEW MEXICO 11/15/05 Certified State No. 3239</p>
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Cimarex Energy Co.

Eddy County (NM27E)

Sec 6 - T25S - R26E

Black Magic 6 Com #2

Wellbore #1

Plan: Plan #1

Standard Planning Report

07 October, 2010





Great White Directional Services Planning Report



Database:	EDM-5000.1 Single User Db	Local Co-ordinate Reference:	Site Sec 6 - T25S - R26E
Company:	Cimarex Energy Co.	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Project:	Eddy County (NM27E)	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Sec 6 - T25S - R26E	North Reference:	Grid
Well:	Black Magic 6 Com #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project	Eddy County (NM27E)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Sec 6 - T25S - R26E		
Site Position:	Map	Northing:	419,439.70 usft
From:		Easting:	500,993.50 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 9' 11.363 N
		Longitude:	104° 19' 48.443 W
		Grid Convergence:	0.00 °

Well	Black Magic 6 Com #2		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:
			0.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF200510	10/06/10	8.00
			Dip Angle
			(°)
			60.02
			Field Strength
			(nT)
			48,617

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			348.30

Plan Sections										
Measured:	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100ft)	(°/100ft)	(°/100ft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,293.0	0.00	0.00	7,293.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,661.2	92.06	348.30	7,522.0	232.5	-48.1	25.00	25.00	0.00	348.30	
9,051.5	92.06	348.29	7,472.0	1,593.0	-330.0	0.00	0.00	0.00	-60.19	Black Magic #2 PBI



Great White Directional Services Planning Report



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Project:	Eddy County (NM27E)	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Sec 6 - T25S - R26E	North Reference:	Grid
Well:	Black Magic 6 Com #2	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)
7,293.0	0.00	0.00	7,293.0	0.0	0.0	0.0	0.00	0.00	0.00
KOP 25/100 DLS @ 351.66 AZI									
7,300.0	1.75	348.30	7,300.0	0.1	0.0	0.1	25.00	25.00	0.00
7,320.0	6.75	348.30	7,319.9	1.6	-0.3	1.6	25.00	25.00	0.00
7,340.0	11.75	348.30	7,339.7	4.7	-1.0	4.8	25.00	25.00	0.00
7,360.0	16.75	348.30	7,359.0	9.5	-2.0	9.7	25.00	25.00	0.00
7,380.0	21.75	348.30	7,377.9	16.0	-3.3	16.3	25.00	25.00	0.00
7,400.0	26.75	348.30	7,396.2	24.0	-5.0	24.5	25.00	25.00	0.00
7,420.0	31.75	348.30	7,413.6	33.6	-7.0	34.3	25.00	25.00	0.00
7,440.0	36.75	348.30	7,430.1	44.6	-9.2	45.5	25.00	25.00	0.00
7,460.0	41.75	348.30	7,445.6	57.0	-11.8	58.2	25.00	25.00	0.00
7,480.0	46.75	348.30	7,459.9	70.7	-14.6	72.2	25.00	25.00	0.00
7,483.0	47.51	348.30	7,462.0	72.8	-15.1	74.4	25.00	25.00	0.00
Lwr 2nd BS ss									
7,500.0	51.75	348.30	7,473.0	85.5	-17.7	87.3	25.00	25.00	0.00
7,520.0	56.75	348.30	7,484.7	101.4	-21.0	103.5	25.00	25.00	0.00
7,540.0	61.75	348.30	7,494.9	118.2	-24.5	120.7	25.00	25.00	0.00
7,560.0	66.75	348.30	7,503.6	135.8	-28.1	138.7	25.00	25.00	0.00
7,580.0	71.75	348.30	7,510.7	154.1	-31.9	157.4	25.00	25.00	0.00
7,600.0	76.75	348.30	7,516.1	173.0	-35.8	176.7	25.00	25.00	0.00
7,620.0	81.75	348.30	7,519.8	192.2	-39.8	196.3	25.00	25.00	0.00
7,640.0	86.75	348.30	7,521.8	211.7	-43.8	216.2	25.00	25.00	0.00
7,658.6	91.41	348.30	7,522.1	229.9	-47.6	234.8	25.00	25.00	0.00
EOC - Hold to TD									
7,661.2	92.06	348.30	7,522.0	232.5	-48.1	237.4	25.00	25.00	0.00
7,700.0	92.06	348.30	7,520.6	270.4	-56.0	276.2	0.00	0.00	0.00
7,800.0	92.06	348.30	7,517.0	368.3	-76.3	376.1	0.00	0.00	0.00
7,900.0	92.06	348.30	7,513.5	466.1	-96.5	476.0	0.00	0.00	0.00
8,000.0	92.06	348.30	7,509.9	564.0	-116.8	576.0	0.00	0.00	0.00
8,100.0	92.06	348.30	7,506.3	661.9	-137.1	675.9	0.00	0.00	0.00
8,200.0	92.06	348.30	7,502.7	759.7	-157.3	775.8	0.00	0.00	0.00
8,300.0	92.06	348.30	7,499.1	857.6	-177.6	875.8	0.00	0.00	0.00
8,400.0	92.06	348.30	7,495.5	955.4	-197.9	975.7	0.00	0.00	0.00
8,500.0	92.06	348.29	7,491.9	1,053.3	-218.2	1,075.6	0.00	0.00	0.00
8,600.0	92.06	348.29	7,488.3	1,151.1	-238.4	1,175.6	0.00	0.00	0.00
8,700.0	92.06	348.29	7,484.7	1,249.0	-258.7	1,275.5	0.00	0.00	0.00
8,800.0	92.06	348.29	7,481.1	1,346.9	-279.0	1,375.4	0.00	0.00	0.00
8,900.0	92.06	348.29	7,477.5	1,444.7	-299.3	1,475.4	0.00	0.00	0.00
9,000.0	92.06	348.29	7,473.9	1,542.6	-319.5	1,575.3	0.00	0.00	0.00
9,051.0	92.06	348.29	7,472.0	1,592.5	-329.9	1,626.3	0.00	0.00	0.00
TD at 9051 MD									
9,051.5	92.06	348.29	7,472.0	1,593.0	-330.0	1,626.8	0.07	0.03	-0.06
Black Magic #2 PBHL									



Great White Directional Services Planning Report



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Project:	Eddy County (NM27E)	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	Sec 6 - T25S - R26E	North Reference:	Grid
Well:	Black Magic 6 Com #2	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Design Targets

Target Name

- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
Black Magic #2 PBHL	0.00	0.01	7,472.0	1,593.0	-330.0	421,032.70	500,663.50	32° 9' 27.129 N	104° 19' 52.281 W
- plan hits target center									
- Point									

Formations

Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(usft)	(usft)			(°)	(°)
5,255.0	5,255.0	Bone Spring		0.00	
5,335.0	5,335.0	1st Bone Spring A		0.00	
5,506.0	5,506.0	1st Bone Spring B		0.00	
5,699.0	5,699.0	1st Bone Spring C		0.00	
6,210.0	6,210.0	1st Bone Spring Ss		0.00	
6,740.0	6,740.0	2nd Bone Spring Ss		0.00	
7,483.0	7,462.0	Lwr 2nd BS ss		0.00	

Plan Annotations

Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
7,293.0	7,293.0	0.0	0.0	KOP 25/100 DLS @ 351.66 AZI
7,658.6	7,522.1	229.9	-47.6	EOC - Hold to TD
9,051.0	7,472.0	1,592.5	-329.9	TD at 9051 MD

Cimarex Energy Company

10/12/06 rh

Lease :	Black Magic 6 Com #2	Perforations			Casing			
Field :	Chosa	Reservoirs	From	To	Size	Weight	Grade	Depth
KB :	23.00				13 3/8	54.5	H40	218
Legals :	Sec 6, T-25-S, R-26-E	Upper Atoka	10,515	10,522	9 5/8	40	J55	2,522
	660' FSL & 1980' FEL	Lower Atoka	10,896	10,900	5 1/2	17	P110	12,164
	Eddy Co., New Mexico	Morrow B2d	11,525	11,543				
Directions to Location :		Morrow B2d	11,553	11,565	Tubing			
	From CoRd426 & CoRd772 - E 200'	Morrow B1d	11,578	11,586	Size	Weight	Grade	Depth
	TR ~ 2.4 mi SE - TR ~ 1.2 mi W							
Continue across well pad to location		Drawing Not To Scale						

Patterson Rig #75 spud 6/9/06
Well TD'd @ 12,235' 7/18/06
Rig released 7/22/06
Completion Started 8/24/06
Turned to Production

5-1/2" csg landed with 175k slip weight

Tree Information

Valve Type	CIW-ODES
Valve Size	2 1/16
Swab Valve	2 1/16
PSI Rated	5,000
Top Connection	
B Section Size	7-1/16" 5m

5-1/2" TOC @ 9500'
HES CBL 8/30/06

13-3/8" 54.5# H40 STC set @ 218'

Cmt'd w/ 180sx Premium
Cement to surface

9-5/8" 40# J55 LT&C set @ 2,522'

Cmt'd w/ 540sx Lead + 200sx Premium
Cement to surface

DV Stage Collar @ 7,307'

Top of marker jts @ 11,202' & 10,369'

Upper Atoka 10,515' - 10,522'

Lower Atoka 10,896' - 10,900'

Morrow B2d 11,525' - 11,543'
11,553' - 11,565'

Morrow B1d 11,578' - 11,586'

20' of Cement - PBTD @ 10,435'
CIBP @ 10,455'

Tested tight

10' of Cement - PBTD @ 10,840'
CIBP @ 10,850'

Tested tight

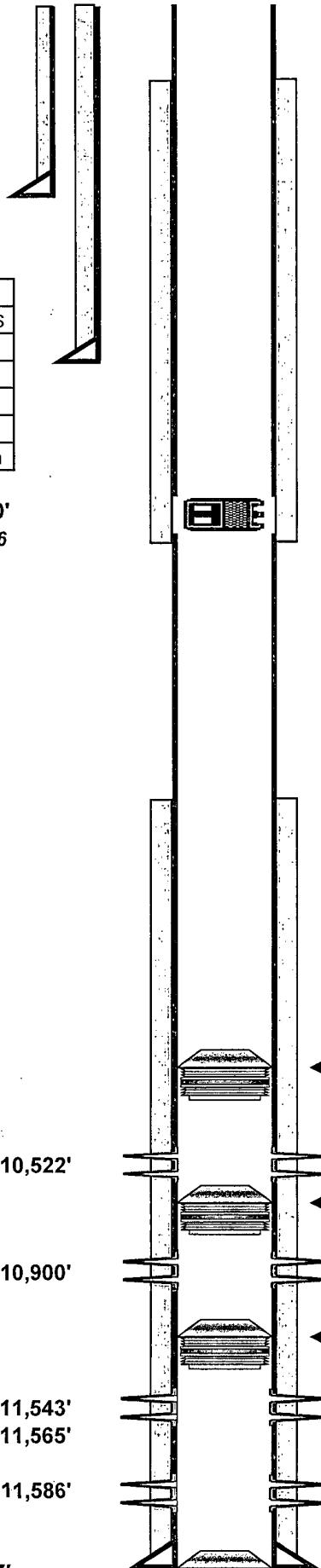
15' of Cement - PBTD @ 11,485'
CIBP @ 11,500'

Tested wet - 4# on 1 1/2" - 60 bwpd

PBTD = 12,120' MD

5-1/2" 17# P110 LTC set @ 12,164'

8 3/4" hole TD @ 12,167'



Cimarex Energy Company of Colorado
NM-28172: Black Magic 6 Com #2
API: 30-015-34523
Eddy County, New Mexico

RE: Recompletion – Conditions of Approval

There is to be no surface disturbance beyond the originally approved pad. A closed loop system is to be used. H2S monitoring and protection equipment is to be on site.

4 hours notice is required (575-361-2822) prior to:

Setting plugs
Drilling out window
Running the liner

3000 (3M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (2M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.

Cement top on CIBP at 11500' is to be at 10976' or shallower (approx 65sx).

Plug across Wolfcamp top to be perforated at 8425' with approximately 75sx. WOC and tag at 8235' or shallower

Perforate and squeeze a plug from 7480'-7310' with approximately 55sx of Class C cement. WOC and tag at 7310' or shallower. This plug is to isolate the DV Tool.

Whipstock can be set on top of cement plug or a CIBP can be set on top of the plug.

Submit subsequent report and completion report with well test once work is completed.

DHW 010311