

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

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

REVISED

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.

JUL 29 2009

5. Lease Serial No. NM-14468
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No. SRM-1173
8. Well Name and No. Grynberg 11 Federal Com No. 3
9. API Well No. 30-015-34193
10. Field and Pool, or Exploratory Area White City; Penn (Gas)
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
5215 N. O'Connor Blvd., Ste. 1500; Irving, TX 75039
3b. Phone No. (include area code)
972-401-3111
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1500' FSL & 1300' FWL
L-11-25S-26E

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ 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 Plug Morrow, RC Delaware horizontal
	☐ 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 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 Grynberg 11 Federal Com No. 3 is currently a marginal Strawn producer from 10626-644' -- 10756-760.' CIBP @ 10970' w/ 35' cmt. Atoka perfs @ 11001-009.' CIBP @ 11480' w/ 35 cmt. Morrow perfs @ 11529-536.' CIBP @ 11700 w/ 35' cmt and HOWCO EZ Drill BP @ 11775' w/ 35' cmt. Morrow perfs @ 11744-818' and 11880-925.'

Cimarex plans to recomplete horizontally in the Delaware as shown below and on the attached C-102 and preliminary directional plan.

- Kill well. ND wellhead and NU 5K BOP. POOH w/ tbq. Set CIBP @ 10580' w/ 35' cmt. Cimarex will address additional plugs above CIBP @ 10580' at abandonment.
- Set whipstock plug @ 4642' and mill window in 5½" casing from 4626-35.' Kick off 4½" lateral @ 4634' and drill to TD @ 8194' MD and 4825' TVD with 9.5 - 9.8 # cut brine..
- Install 2½" 6.5# L-80 PEAK completion assembly from RSBP @ 4530' to TD.
- Frac as needed.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

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

Natalie Krueger

Signature

Natalie Krueger

Title

Regulatory

Date

July 10, 2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

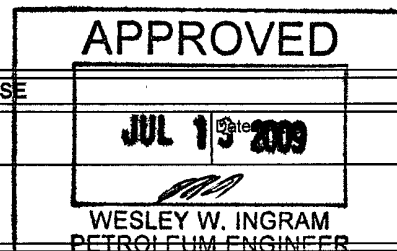
Title

Office

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.

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)



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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-34193	² Pool Code	³ Pool Name Delaware Wildcat
⁴ Property Code	⁵ Property Name Grynberg 11 Federal Com	⁶ Well Number 003
⁷ OGRID No. 162683	⁸ Operator Name Cimarex Energy Co. of Colorado	⁹ Elevation

¹⁰ Surface Location

UL or lot no. L	Section 11	Township 25S	Range 26E	Lot Idn	Feet from the 1500	North/South line South	Feet from the 1300	East/West line West	County EDDY
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. A	Section 11	Township 25S	Range 26E	Lot Idn	Feet from the 330	North/South line North	Feet from the 1225	East/West line West	County EDDY
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¹² Dedicated Acres 120	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL Pending
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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.

	¹⁷ 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 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> <u>Zeno Farris</u> 6/5/2009 Signature Date Zeno Farris Printed Name
	¹⁸ 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> Date of Survey Signature and Seal of Professional Surveyor
	Certificate Number

Cimarex Energy Co.

Eddy County (NM27E)

Sec 11-T25S-R26E

Grynberg 11 Fed #3

Wellbore #1

Plan: 06-02-09

Standard Planning Report

02 June, 2009

Quantum Drilling Motors

Planning Report

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well Grynberg 11 Fed #3
Company:	Cimarex Energy Co.	TVD Reference:	WELL @ 3347.0ft (Original Well Elev)
Project:	Eddy County (NM27E)	MD Reference:	WELL @ 3347.0ft (Original Well Elev)
Site:	Sec 11-T25S-R26E	North Reference:	Grid
Well:	Grynberg 11 Fed #3	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	06-02-09		

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.11-T25S-R26E					
Site Position:		Northing:	415,062.70ft	Latitude:	32° 8' 27.985 N
From:	Map	Easting:	520,332.00ft	Longitude:	104° 16' 3.520 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.03 °

Well	Grynberg 11 Fed #3					
Well Position	+N/-S	0.0 ft	Northing:	415,062.70 ft	Latitude:	32° 8' 27.985 N
	+E/-W	0.0 ft	Easting:	520,332.00 ft	Longitude:	104° 16' 3.520 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	3,328.0 ft

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2009/06/02	8.13	60.05	48,718

Design 06-02-09				
Audit Notes:				
Version:		Phase: PLAN	Tie On Depth: 0.0	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	358.75

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	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	
4,634.1	0.00	0.00	4,634.1	0.0	0.0	0.00	0.00	0.00	0.00	
4,937.0	90.88	358.75	4,825.0	193.9	-4.2	30.00	30.00	0.00	358.75	
8,194.3	90.88	358.75	4,775.0	3,450.0	-75.0	0.00	0.00	0.00	0.00	Grynberg 11 Fed #

Quantum Drilling Motors

Planning Report

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Project:	Eddy County (NM27E)	MD Reference:	WELL @ 3347.0ft (Original Well Elev)
Site:	Sec 11-T25S-R26E	North Reference:	Grid:
Well:	Grynberg 11 Fed #3	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	06-02-09		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1,052.0	0.00	0.00	1,052.0	0.0	0.0	0.0	0.00	0.00	0.00
Top Salt									
1,705.0	0.00	0.00	1,705.0	0.0	0.0	0.0	0.00	0.00	0.00
Base Salt									
1,911.0	0.00	0.00	1,911.0	0.0	0.0	0.0	0.00	0.00	0.00
Bell Canyon - Ramsey Ss									
2,864.0	0.00	0.00	2,864.0	0.0	0.0	0.0	0.00	0.00	0.00
Cherry Canyon									
3,006.0	0.00	0.00	3,006.0	0.0	0.0	0.0	0.00	0.00	0.00
Cherry Canyon M3									
3,995.0	0.00	0.00	3,995.0	0.0	0.0	0.0	0.00	0.00	0.00
Brushy Canyon									
4,634.1	0.00	0.00	4,634.1	0.0	0.0	0.0	0.00	0.00	0.00
KOP - 30/100									
4,700.0	19.78	358.75	4,698.7	11.3	-0.2	11.3	30.00	30.00	0.00
4,800.0	49.78	358.75	4,779.9	67.6	-1.5	67.7	30.00	30.00	0.00
4,840.2	61.78	358.75	4,802.5	100.8	-2.2	100.9	29.84	29.84	0.00
Brushy Canyon B4									
4,900.0	79.78	358.75	4,822.0	157.1	-3.4	157.1	30.11	30.11	0.00
4,903.1	80.70	358.75	4,822.5	160.1	-3.5	160.1	30.00	30.00	0.00
B4 TVD Target									
4,937.0	90.88	358.75	4,825.0	193.9	-4.2	193.9	30.00	30.00	0.00
EOC - Hold to TD									
5,000.0	90.88	358.75	4,824.1	256.9	-5.6	256.9	0.00	0.00	0.00
5,100.0	90.88	358.75	4,822.5	356.8	-7.8	356.9	0.00	0.00	0.00
5,200.0	90.88	358.75	4,821.0	456.8	-9.9	456.9	0.00	0.00	0.00
5,300.0	90.88	358.75	4,819.5	556.7	-12.1	556.9	0.00	0.00	0.00
5,400.0	90.88	358.75	4,817.9	656.7	-14.3	656.9	0.00	0.00	0.00
5,500.0	90.88	358.75	4,816.4	756.7	-16.4	756.9	0.00	0.00	0.00
5,600.0	90.88	358.75	4,814.8	856.6	-18.6	856.8	0.00	0.00	0.00
5,700.0	90.88	358.75	4,813.3	956.6	-20.8	956.8	0.00	0.00	0.00
5,800.0	90.88	358.75	4,811.8	1,056.6	-23.0	1,056.8	0.00	0.00	0.00
5,900.0	90.88	358.75	4,810.2	1,156.5	-25.1	1,156.8	0.00	0.00	0.00
6,000.0	90.88	358.75	4,808.7	1,256.5	-27.3	1,256.8	0.00	0.00	0.00
6,100.0	90.88	358.75	4,807.2	1,356.5	-29.5	1,356.8	0.00	0.00	0.00
6,200.0	90.88	358.75	4,805.6	1,456.4	-31.7	1,456.8	0.00	0.00	0.00
6,300.0	90.88	358.75	4,804.1	1,556.4	-33.8	1,556.8	0.00	0.00	0.00
6,400.0	90.88	358.75	4,802.6	1,656.4	-36.0	1,656.8	0.00	0.00	0.00
6,500.0	90.88	358.75	4,801.0	1,756.3	-38.2	1,756.7	0.00	0.00	0.00
6,600.0	90.88	358.75	4,799.5	1,856.3	-40.4	1,856.7	0.00	0.00	0.00
6,700.0	90.88	358.75	4,797.9	1,956.3	-42.5	1,956.7	0.00	0.00	0.00
6,800.0	90.88	358.75	4,796.4	2,056.2	-44.7	2,056.7	0.00	0.00	0.00
6,900.0	90.88	358.75	4,794.9	2,156.2	-46.9	2,156.7	0.00	0.00	0.00
7,000.0	90.88	358.75	4,793.3	2,256.1	-49.0	2,256.7	0.00	0.00	0.00
7,100.0	90.88	358.75	4,791.8	2,356.1	-51.2	2,356.7	0.00	0.00	0.00
7,200.0	90.88	358.75	4,790.3	2,456.1	-53.4	2,456.7	0.00	0.00	0.00
7,300.0	90.88	358.75	4,788.7	2,556.0	-55.6	2,556.6	0.00	0.00	0.00
7,400.0	90.88	358.75	4,787.2	2,656.0	-57.7	2,656.6	0.00	0.00	0.00
7,500.0	90.88	358.75	4,785.7	2,756.0	-59.9	2,756.6	0.00	0.00	0.00
7,600.0	90.88	358.75	4,784.1	2,855.9	-62.1	2,856.6	0.00	0.00	0.00
7,700.0	90.88	358.75	4,782.6	2,955.9	-64.3	2,956.6	0.00	0.00	0.00

Quantum Drilling Motors

Planning Report

Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well Grynberg 11 Fed #3
Company:	Cimarex Energy Co.	TVD Reference:	WELL @ 3347.0ft (Original Well Elev)
Project:	Eddy County (NM27E)	MD Reference:	WELL @ 3347.0ft (Original Well Elev)
Site:	Sec 11-T25S-R26E	North Reference:	Grid
Well:	Grynberg 11 Fed #3	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	06-02-09		

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)
7,800.0	90.88	358.75	4,781.1	3,055.9	-66.4	3,056.6	0.00	0.00	0.00
7,900.0	90.88	358.75	4,779.5	3,155.8	-68.6	3,156.6	0.00	0.00	0.00
8,000.0	90.88	358.75	4,778.0	3,255.8	-70.8	3,256.6	0.00	0.00	0.00
8,100.0	90.88	358.75	4,776.4	3,355.8	-73.0	3,356.5	0.00	0.00	0.00
8,194.3	90.88	358.75	4,775.0	3,450.0	-75.0	3,450.8	0.00	0.00	0.00
TD at 8194.3 - Grynberg 11 Fed #3 PBHL									

Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude Longitude
Grynberg 11 Fed #3 F	- plan hits target	0.00	0.00	4,775.0	3,450.0	-75.0	418,512.70	520,257.00	32° 9' 2.129 N 104° 16' 4.367 W
	- Point								

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,006.0	3,006.0	Cherry Canyon M3		0.00		
1,052.0	1,052.0	Top Salt		0.00		
1,705.0	1,705.0	Base Salt		0.00		
1,911.0	1,911.0	Ramsey Ss		0.00		
4,903.1	4,825.0	B4 TVD Target		-0.88	358.75	
4,840.2	4,804.0	Brushy Canyon B4		-0.88	358.75	
2,864.0	2,864.0	Cherry Canyon		0.00		
1,911.0	1,911.0	Bell Canyon		0.00		
3,995.0	3,995.0	Brushy Canyon		0.00		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,634.1	4,634.1	0.0	0.0	KOP - 30/100
4,937.0	4,825.0	193.9	-4.2	EOC - Hold to TD
8,194.3	4,775.0	3,450.0	-75.0	TD at 8194.3

Cimarex Energy Co.

Project: Eddy County (NM27E)
Site: Sec 11-T2SS-R26E
Well: Grynberg 11 Fed #3
Wellbore: Wellbore #1
Design: 06-02-09
Plan Version

WELL DETAILS: Grynberg 11 Fed #3

+N/-S +E/-W Northing Easting Latitude Longitude
0.0 0.0 415062.70 520332.00 32° 8' 27.985 N 104° 16' 3.520 W



Azimuths to Grid North
Total Correction 8.09°
Magnetic Field
Strength 48719.3nT
Dip Angle 60.05°
Date 2009/06/02
Model IGRF200510

WELLBORE TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
Grynberg 11 Fed #3 PBHL	4775.0	3450.0	-75.0	418512.70	520257.00

PLAN DETAILS

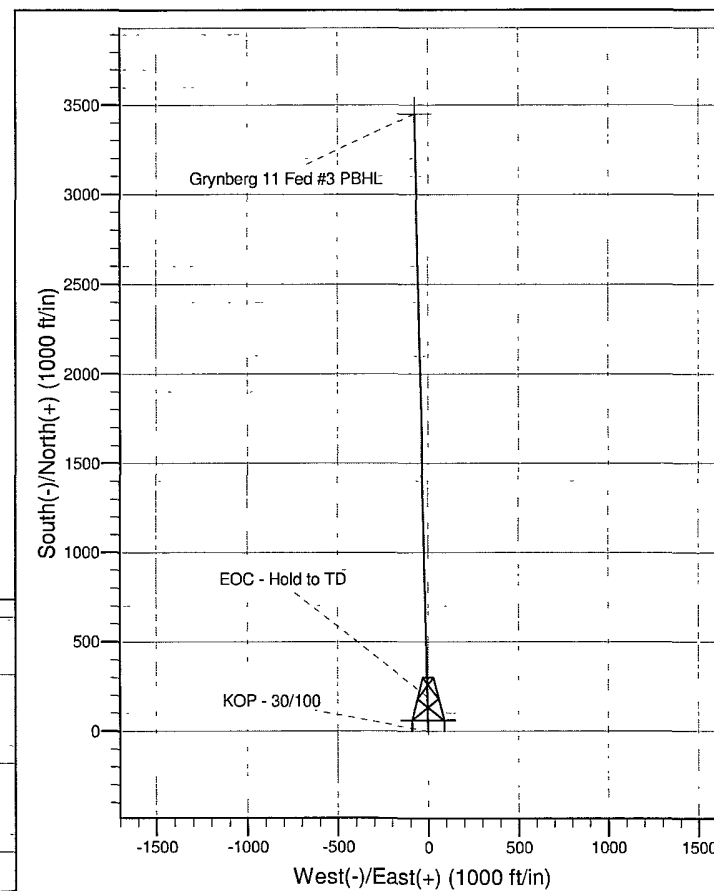
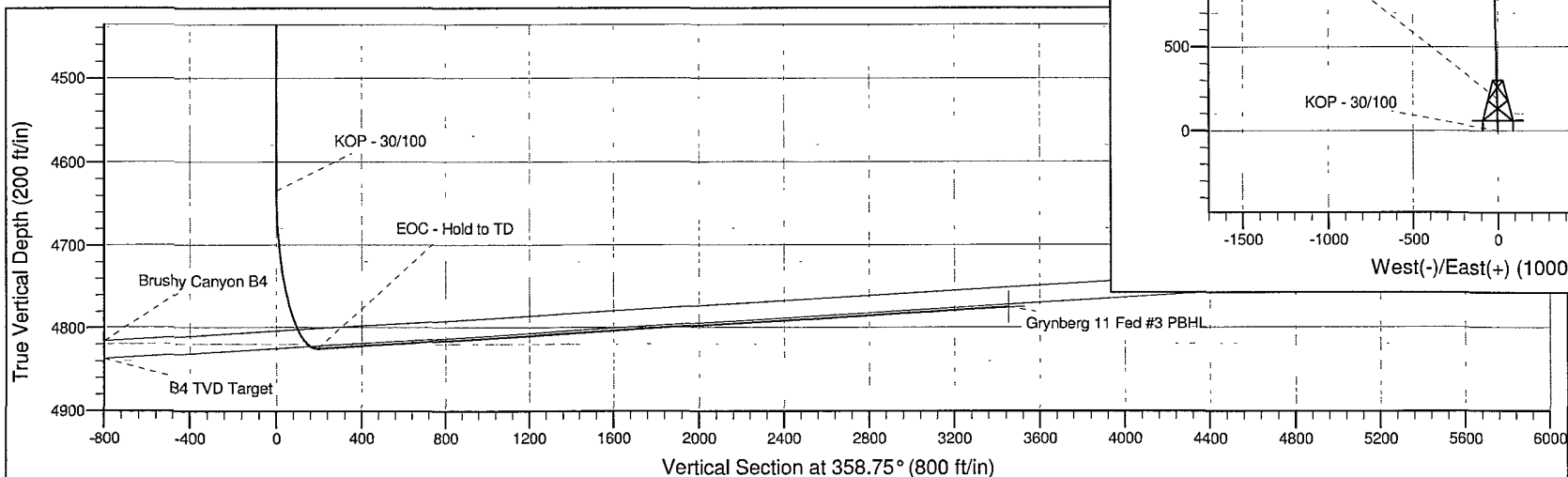
MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
4634.1	0.00	0.00	4634.1	0.0	0.0	0.00	0.00	0.0	
4937.0	90.88	358.75	4825.0	193.9	-4.2	30.00	358.75	193.9	
8194.3	90.88	358.75	4775.0	3450.0	-75.0	0.00	0.00	3450.8	Grynberg 11 Fed #3 PBHL

FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
1052.0	1052.0	Top Salt
1705.0	1705.0	Base Salt
1911.0	1911.0	Bell Canyon
1911.0	1911.0	Ramsey Ss
2864.0	2864.0	Cherry Canyon
3006.0	3006.0	Cherry Canyon M3
3995.0	3995.0	Brushy Canyon
4802.5	4840.2	Brushy Canyon B4
4822.5	4903.1	B4 TVD Target

ANNOTATIONS

TVD	MD	Annotation
4634.1	4634.1	KOP - 30/100
4825.0	4937.0	EOC - Hold to TD
4775.0	8194.3	TD at 8194.3



Magnetic Calculator Results: Grynberg 11 Fed #3

Geomagnetic Model	:	IGRF200510
Latitude	:	32° 8' 27.985 N
Longitude	:	104° 16' 3.520 W
Sample Date	:	2009/06/02
Vertical Depth	:	0.0
Azimuth of Magnetic North:		8.125° True
Magnetic Declination	:	8.125°E from True North
Dip Angle from Horizontal:		60.049°
Magnetic Field Strength	:	48718 nT
Magnetic Field X value	:	24079 nT
Magnetic Field Y value	:	3438 nT
Magnetic Field Z value	:	42212 nT
Magnetic Field Horizontal:		24323 nT
Magnetic Azimuth Apply	:	8.09 to convert to Grid North
Gyroscope Azimuth Apply	:	-0.03 to convert to Grid North

Cimarex Energy Co. of Colorado

Gryngerg 11 Federal Com No. 3

SPUDED 08-24-05

API 30-015-34193

CURRENT CONDITION

N. Krueger

07-09-09

KB:

CH:

GL 3328' GR

1500 FSL & 1300 FWL

11-25S-26E

Unit Letter L

Eddy County, NM

Casing Strings.

13-3/8" (17-1/2" hole), 48# H-40

@ 207' w/ 235 sx cmt

TOC @ surface - circ

TOC surface (circ)

T. Salt 1052'

B. Salt 1705'

Bell Canyon 1911'

9-5/8" (12-1/4" hole), 40# J-55

@ 2854' w/ 925 sx cmt

TOC @ surface - circ

Cherry Canyon 2884'

Brushy Canyon 3995'

Brushy Canyon B4 4804'

Bone Spring 5414'

Proposed KOP 4634'

DV tool @ 6980'

Wolfcamp 8575'

Cisco-Canyon 10178'

Strawn 10479'

Strawn perms 10626-644', 10756-760'

Atoka 10683'

CIBP @ 10970' w/ 35' cmt

Atoka perms 11001-009'

Morrow 11266'

CIBP @ 11480' w/ 35' cmt

Morrow perms 11529-536'

CIBP @ 11700' w/ 35' cmt

Morrow Perfs 11744-818'

5½" (8¼" hole) 17# P-110 LTC

@ 12275' w/ 2140 sx cmt

TOC @ surf - circ off DV tool

HOWCO EZ Drill BP @ 11775' w/ 35' cmt

Morrow perms 11880-925'

TD = 12275'

**Grynberg 11 Federal Com No 3
30-015-34193
Cimarex Energy Co. of Colorado
July 13, 2009
Conditions of Approval**

- 1. Operator will be required to address the additional plugs between the Strawn and Delaware formation at final abandonment or prior to selling this wellbore to another operator. This will include a plug across the DV tool.**
- 2. Surface disturbance beyond the existing pad must have prior approval.**
- 3. Entire pad to be bermed due to Critical Cave/karst.**
- 4. Closed loop system required.**
- 5. A Hydrogen Sulfide (H₂S) Drilling Plan should be activated 500 feet prior to milling the window in the 5 ½" casing. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.**
- 6. 5M BOP to be tested prior to setting CIBP over Strawn perforations.**
- 7. Contact BLM 575-361-2822 a minimum of 4 hours prior to setting CIBP above Strawn.**
- 8. A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales. Operator to supply NMOCD order or description of pool which details the vertical and horizontal extent of pool to verify that requested communitization is within an approved and established pool.**
- 9. Subsequent sundry required detailing work done.**
- 10. Completion report required for new zone.**

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