

DISTRICT I
1025 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

OIL CONSERVATION DIVISION

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

Form C-102

Revised July 10, 2010

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-38429	Pool Code 96210	Pool Name Empire; Glorieta-Yeso
Property Code 38427	Property Name MARACAS "22" STATE	Well Number 6
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3724'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	22	17 S	28 E		150	NORTH	680	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
A	22	17 S	28 E		330	NORTH	990	EAST	EDDY

Dedicated Acres 40	Joint or Infill	Consolidation Code	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

	SURFACE LOCATION Lat - N 32°49'36.409" Long - W 104°09'26.571" NMSPC- H 664560.5 E 595385.6 (NAD-83)
	PROPOSED BOTTOM HOLE LOCATION Lat - N 32°49'34.611" Long - W 104°09'30.165" NMSPC- N 664378.30 E 595079.27 (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. <i>Natalie Krueger</i> 1/25/2011 Signature Date Natalie Krueger Printed Name nkrueger@cimarex.com Email Address	
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. <i>GARY L. JONES</i> Date Surveyed 1/25/2011 Signature & Seal of Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS 23449	

Mud, Casing, Cementing, and BOP Attachment

Maracas 22 State No. 6

Cimarex Energy Co. of Colorado

Unit A, Section 22

T17S-R28E, Eddy County, NM

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

Location: SHL 150 NFL & 680 FEL
BHL 330 FNL & 990 FEL

Elevation above sea level: 3724' GR

Proposed drilling depth: 5019'

Proposed Drilling Plan: After setting surface casing, drill to KOP 1600 with 7½" bit and kick off to drill directional to TD of 5019 MD, 5000 TVD. Set and cement 5½" production casing.

Proposed Mud Circulating System:

Depth	Mud Wt	Visc	Fluid Loss	Type Mud
0' to 400'	8.4 - 8.6	28	NC	FW
0' to 5019'	10.0	30-32	NC	Brine water

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

Casing & Cementing Plan:

String	Hole Size	Depth	Casing OD	Weight	Collar	Grade
Surface	12¼"	0' to 400'	New 8½"	24#	STC	J-55
Production	7½"	0' to 5019'	New 5½"	17#	LTC	J-55

Cementing Plan:

Surface Lead: 600 sx Class H
Tail: 500 sx Class H
TOC Surface

Production Lead: 700 sx Class H
Tail: 600 sx Class H
TOC 0'

Fresh water zones will be protected by setting 8½" casing at 400 and cementing to surface. Hydrocarbon zones will be protected by setting 5½" casing at 5019 and cementing to surface.

Collapse Factor

1.125

Burst Factor

1.125

Tension Factor

1.6



Planned Wellpath Report

Prelim_1

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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No.6 SHL
Area	Eddy County, NM	Well	No.6
Field	Paddock Blinbry Filed	Wellbore	No.6 PWB
Facility	Maracas 22 State No.6		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Gomeoscr
Scale	0.999912	Report Generated	1/24/2011 at 2:23:59 PM
Convergence at slot	0.10° East	Database/Source file	WA Midland/No.6_PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	595385.60	664560.50	32°49'36.409"N	104°09'26.571"W
Facility Reference Pt			595385.60	664560.50	32°49'36.409"N	104°09'26.571"W
Field Reference Pt			594612.60	661200.10	32°49'03.170"N	104°09'35.695"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No.6 SHL (RT) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Slot	Rig on No.6 SHL (RT) to Mean Sea Level	3724.00ft
Vertical Reference Pt	Rig on No.6 SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No.6 SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	239.26°



Planned Wellpath Report

Prelim_1
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REFERENCE WELLPATH IDENTIFICATION			
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Area	Eddy County, NM	Well	No.6
Field	Paddock Blinbry Filed	Wellbore	No.6 PWB
Facility	Maracas 22 State No.6		

WELLPATH DATA (53 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	239.257	0.00	0.00	0.00	0.00	595385.60	664560.50	32°49'36.409"N	104°09'26.571"W	0.00	Tie On
100.00†	0.000	239.257	100.00	0.00	0.00	0.00	595385.60	664560.50	32°49'36.409"N	104°09'26.571"W	0.00	
200.00†	0.000	239.257	200.00	0.00	0.00	0.00	595385.60	664560.50	32°49'36.409"N	104°09'26.571"W	0.00	
300.00†	0.000	239.257	300.00	0.00	0.00	0.00	595385.60	664560.50	32°49'36.409"N	104°09'26.571"W	0.00	
400.00†	0.000	239.257	400.00	0.00	0.00	0.00	595385.60	664560.50	32°49'36.409"N	104°09'26.571"W	0.00	
500.00†	0.000	239.257	500.00	0.00	0.00	0.00	595385.60	664560.50	32°49'36.409"N	104°09'26.571"W	0.00	
600.00†	0.000	239.257	600.00	0.00	0.00	0.00	595385.60	664560.50	32°49'36.409"N	104°09'26.571"W	0.00	
700.00†	0.000	239.257	700.00	0.00	0.00	0.00	595385.60	664560.50	32°49'36.409"N	104°09'26.571"W	0.00	
800.00†	0.000	239.257	800.00	0.00	0.00	0.00	595385.60	664560.50	32°49'36.409"N	104°09'26.571"W	0.00	
900.00†	0.000	239.257	900.00	0.00	0.00	0.00	595385.60	664560.50	32°49'36.409"N	104°09'26.571"W	0.00	
1000.00†	0.000	239.257	1000.00	0.00	0.00	0.00	595385.60	664560.50	32°49'36.409"N	104°09'26.571"W	0.00	
1100.00†	0.000	239.257	1100.00	0.00	0.00	0.00	595385.60	664560.50	32°49'36.409"N	104°09'26.571"W	0.00	
1200.00†	0.000	239.257	1200.00	0.00	0.00	0.00	595385.60	664560.50	32°49'36.409"N	104°09'26.571"W	0.00	
1300.00†	0.000	239.257	1300.00	0.00	0.00	0.00	595385.60	664560.50	32°49'36.409"N	104°09'26.571"W	0.00	
1400.00†	0.000	239.257	1400.00	0.00	0.00	0.00	595385.60	664560.50	32°49'36.409"N	104°09'26.571"W	0.00	
1500.00†	0.000	239.257	1500.00	0.00	0.00	0.00	595385.60	664560.50	32°49'36.409"N	104°09'26.571"W	0.00	
1600.00	0.000	239.257	1600.00	0.00	0.00	0.00	595385.60	664560.50	32°49'36.409"N	104°09'26.571"W	0.00	Est KOP
1700.00†	2.500	239.257	1699.97	2.18	-1.12	-1.87	595383.73	664559.39	32°49'36.398"N	104°09'26.593"W	2.50	
1800.00†	5.000	239.257	1799.75	8.72	-4.46	-7.50	595378.11	664556.04	32°49'36.365"N	104°09'26.659"W	2.50	
1848.41	6.210	239.257	1847.93	13.45	-6.88	-11.56	595374.04	664553.63	32°49'36.341"N	104°09'26.707"W	2.50	FOB
1900.00†	6.210	239.257	1899.21	19.03	-9.73	-16.36	595369.25	664550.77	32°49'36.313"N	104°09'26.763"W	0.00	
2000.00†	6.210	239.257	1998.62	29.85	-15.26	-25.65	595359.95	664545.24	32°49'36.258"N	104°09'26.872"W	0.00	
2100.00†	6.210	239.257	2098.04	40.67	-20.79	-34.95	595350.65	664539.71	32°49'36.204"N	104°09'26.981"W	0.00	
2200.00†	6.210	239.257	2197.45	51.48	-26.32	-44.25	595341.36	664534.18	32°49'36.149"N	104°09'27.090"W	0.00	
2300.00†	6.210	239.257	2296.86	62.30	-31.85	-53.55	595332.06	664528.65	32°49'36.095"N	104°09'27.199"W	0.00	
2400.00†	6.210	239.257	2396.28	73.12	-37.38	-62.84	595322.76	664523.12	32°49'36.040"N	104°09'27.308"W	0.00	
2500.00†	6.210	239.257	2495.69	83.94	-42.91	-72.14	595313.46	664517.60	32°49'35.986"N	104°09'27.417"W	0.00	
2600.00†	6.210	239.257	2595.10	94.76	-48.44	-81.44	595304.17	664512.07	32°49'35.931"N	104°09'27.526"W	0.00	
2700.00†	6.210	239.257	2694.52	105.57	-53.97	-90.74	595294.87	664506.54	32°49'35.877"N	104°09'27.635"W	0.00	
2800.00†	6.210	239.257	2793.93	116.39	-59.50	-100.03	595285.57	664501.01	32°49'35.822"N	104°09'27.744"W	0.00	
2900.00†	6.210	239.257	2893.34	127.21	-65.03	-109.33	595276.28	664495.48	32°49'35.767"N	104°09'27.854"W	0.00	
3000.00†	6.210	239.257	2992.76	138.03	-70.56	-118.63	595266.98	664489.95	32°49'35.713"N	104°09'27.963"W	0.00	
3100.00†	6.210	239.257	3092.17	148.85	-76.09	-127.93	595257.68	664484.42	32°49'35.658"N	104°09'28.072"W	0.00	
3200.00†	6.210	239.257	3191.58	159.66	-81.62	-137.22	595248.39	664478.89	32°49'35.604"N	104°09'28.181"W	0.00	
3300.00†	6.210	239.257	3291.00	170.48	-87.15	-146.52	595239.09	664473.36	32°49'35.549"N	104°09'28.290"W	0.00	
3400.00†	6.210	239.257	3390.41	181.30	-92.68	-155.82	595229.79	664467.83	32°49'35.495"N	104°09'28.399"W	0.00	
3500.00†	6.210	239.257	3489.82	192.12	-98.21	-165.12	595220.50	664462.30	32°49'35.440"N	104°09'28.508"W	0.00	
3600.00†	6.210	239.257	3589.23	202.94	-103.74	-174.42	595211.20	664456.77	32°49'35.385"N	104°09'28.617"W	0.00	
3700.00†	6.210	239.257	3688.65	213.75	-109.27	-183.71	595201.90	664451.24	32°49'35.331"N	104°09'28.726"W	0.00	
3800.00†	6.210	239.257	3788.06	224.57	-114.80	-193.01	595192.61	664445.71	32°49'35.276"N	104°09'28.835"W	0.00	
3900.00†	6.210	239.257	3887.47	235.39	-120.33	-202.31	595183.31	664440.18	32°49'35.222"N	104°09'28.944"W	0.00	
4000.00†	6.210	239.257	3986.89	246.21	-125.86	-211.61	595174.01	664434.65	32°49'35.167"N	104°09'29.053"W	0.00	
4100.00†	6.210	239.257	4086.30	257.02	-131.39	-220.90	595164.72	664429.12	32°49'35.113"N	104°09'29.162"W	0.00	
4200.00†	6.210	239.257	4185.71	267.84	-136.92	-230.20	595155.42	664423.59	32°49'35.058"N	104°09'29.271"W	0.00	
4300.00†	6.210	239.257	4285.13	278.66	-142.45	-239.50	595146.12	664418.06	32°49'35.004"N	104°09'29.380"W	0.00	



Planned Wellpath Report

Prelim_1

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INTEQ

REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.6 SHL
Area	Eddy County, NM	Well	No.6
Field	Paddock Blinebry Filed	Wellbore	No.6 PWB
Facility	Maracas 22 State No.6		

WELLPATH DATA (53 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4400.00†	6.210	239.257	4384.54	289.48	-147.98	-248.80	595136.83	664412.53	32°49'34.949"N	104°09'29.490"W	0.00	
4500.00†	6.210	239.257	4483.95	300.30	-153.51	-258.09	595127.53	664407.00	32°49'34.894"N	104°09'29.599"W	0.00	
4600.00†	6.210	239.257	4583.37	311.11	-159.04	-267.39	595118.23	664401.47	32°49'34.840"N	104°09'29.708"W	0.00	
4700.00†	6.210	239.257	4682.78	321.93	-164.57	-276.69	595108.94	664395.94	32°49'34.785"N	104°09'29.817"W	0.00	
4800.00†	6.210	239.257	4782.19	332.75	-170.10	-285.99	595099.64	664390.41	32°49'34.731"N	104°09'29.926"W	0.00	
4900.00†	6.210	239.257	4881.61	343.57	-175.63	-295.28	595090.34	664384.89	32°49'34.676"N	104°09'30.035"W	0.00	
5000.00†	6.210	239.257	4981.02	354.39	-181.16	-304.58	595081.05	664379.36	32°49'34.622"N	104°09'30.144"W	0.00	
5019.09	6.210	239.257	5000.00†	356.45	-182.22	-306.36	595079.27	664378.30	32°49'34.611"N	104°09'30.165"W	0.00	No.6 PBHL

HOLE & CASING SECTIONS Ref Wellbore: No.6 PWB Ref Wellpath: Prelim_1										
String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]	
8.625in Casing	0.00	400.00	400.00	0.00	400.00	0.00	0.00	0.00	0.00	
7.875in Open Hole	400.00	5019.09	4619.09	400.00	5000.00	0.00	0.00	-182.22	-306.36	

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) Maracas 22 State No.6 PBHL	5019.09	5000.00	-182.22	-306.36	595079.27	664378.30	32°49'34.611"N	104°09'30.165"W	point

SURVEY PROGRAM Ref Wellbore: No.6 PWB Ref Wellpath: Prelim_1				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	5019.09	NaviTrak (Standard)		No.6-PWB