

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

Form C-102
Revised July 16, 2010
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 30-025-40064	Pool Code 50600	Pool Name Querecho Plains; Upper Bone Spring
Property Code 38499	Property Name QUERECHO 36 STATE COM	Well Number 1
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3731'

Surface Location

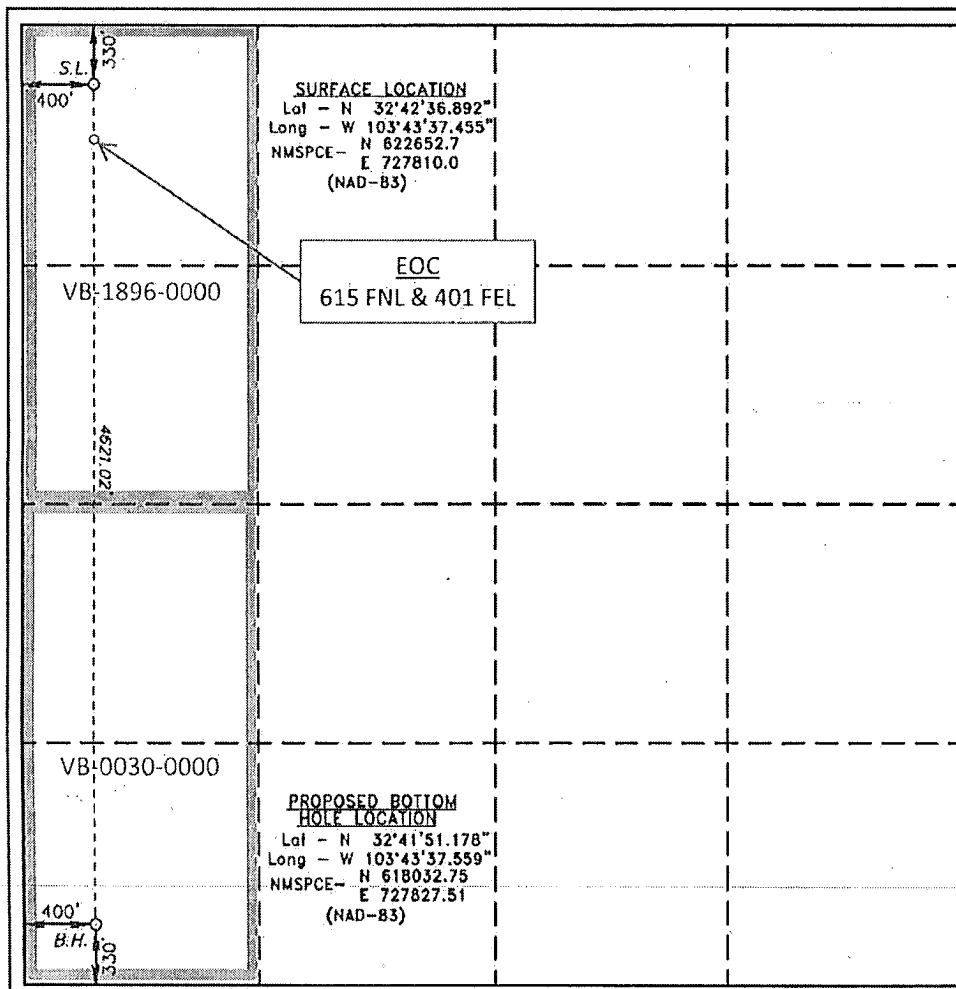
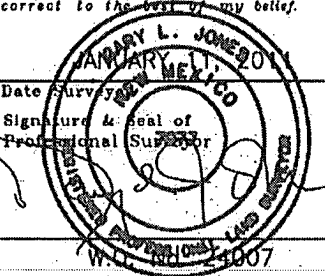
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	36	18 S	32 E		330	NORTH	400	WEST	LEA

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
M	36	18 S	32 E		330	SOUTH	400	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160		P	

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. <u>Natalie Krueger</u> 2/17/2011 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.  Date Surveyed Signature & Seal of Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS 24007
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Planned Wellpath Report

Prelim_1
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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No.1H SHL
Area	Lea County, NM	Well	No.1H
Field	(Querecho) Sec 36, T18S, R32E	Wellbore	No.1H PWB
Facility	Querecho 36 State No.1H		

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	Gentbry
Scale	0.999949	Report Generated	2/7/2011 at 2:55:43 PM
Convergence at slot	0.33° East	Database/Source file	WA_Midland/No.1H_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	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W
Facility Reference Pt			727810.00	622652.70	32°42'36.892"N	103°43'37.455"W
Field Reference Pt			0.00	0.00	30°59'18.404"N	106°03'38.987"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No.1H SHL (RT) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Slot	Rig on No.1H SHL (RT) to Mean Sea Level	3731.00ft
Vertical Reference Pt	Rig on No.1H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No.1H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.78°



Planned Wellpath Report

Prelim_1
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No.1H SHL
Area	Lea County, NM	Well	No.1H
Field	(Querecho) Sec 36, T18S, R32E	Wellbore	No.1H PWB
Facility	Querecho 36 State No.1H		

WELLPATH DATA (144 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	179.783	0.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	Tie On
100.00†	0.000	179.783	100.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
200.00†	0.000	179.783	200.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
300.00†	0.000	179.783	300.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
400.00†	0.000	179.783	400.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
500.00†	0.000	179.783	500.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
600.00†	0.000	179.783	600.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
700.00†	0.000	179.783	700.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
800.00†	0.000	179.783	800.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
900.00†	0.000	179.783	900.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
1000.00†	0.000	179.783	1000.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
1100.00†	0.000	179.783	1100.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
1200.00†	0.000	179.783	1200.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
1300.00†	0.000	179.783	1300.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
1400.00†	0.000	179.783	1400.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
1500.00†	0.000	179.783	1500.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
1600.00†	0.000	179.783	1600.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
1700.00†	0.000	179.783	1700.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
1800.00†	0.000	179.783	1800.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
1900.00†	0.000	179.783	1900.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
2000.00†	0.000	179.783	2000.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
2100.00†	0.000	179.783	2100.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
2200.00†	0.000	179.783	2200.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
2300.00†	0.000	179.783	2300.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
2400.00†	0.000	179.783	2400.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
2500.00†	0.000	179.783	2500.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
2600.00†	0.000	179.783	2600.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
2700.00†	0.000	179.783	2700.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
2800.00†	0.000	179.783	2800.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
2900.00†	0.000	179.783	2900.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
3000.00†	0.000	179.783	3000.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
3100.00†	0.000	179.783	3100.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
3200.00†	0.000	179.783	3200.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
3300.00†	0.000	179.783	3300.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
3400.00†	0.000	179.783	3400.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
3500.00†	0.000	179.783	3500.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
3600.00†	0.000	179.783	3600.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
3700.00†	0.000	179.783	3700.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
3800.00†	0.000	179.783	3800.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
3900.00†	0.000	179.783	3900.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
4000.00†	0.000	179.783	4000.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
4100.00†	0.000	179.783	4100.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
4200.00†	0.000	179.783	4200.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
4300.00†	0.000	179.783	4300.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
4400.00†	0.000	179.783	4400.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	



Planned Wellpath Report

Prelim_1
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INTEQ

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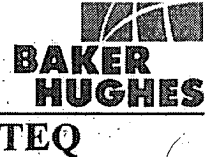
WELLPATH DATA (144 stations) † = interpolated/extrapolated station

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
4500.00†	0.000	179.783	4500.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
4600.00†	0.000	179.783	4600.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
4700.00†	0.000	179.783	4700.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
4800.00†	0.000	179.783	4800.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
4900.00†	0.000	179.783	4900.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
5000.00†	0.000	179.783	5000.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
5100.00†	0.000	179.783	5100.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
5200.00†	0.000	179.783	5200.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
5300.00†	0.000	179.783	5300.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
5400.00†	0.000	179.783	5400.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
5500.00†	0.000	179.783	5500.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
5600.00†	0.000	179.783	5600.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
5700.00†	0.000	179.783	5700.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
5800.00†	0.000	179.783	5800.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
5900.00†	0.000	179.783	5900.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
6000.00†	0.000	179.783	6000.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
6100.00†	0.000	179.783	6100.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
6200.00†	0.000	179.783	6200.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
6300.00†	0.000	179.783	6300.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
6400.00†	0.000	179.783	6400.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
6500.00†	0.000	179.783	6500.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
6600.00†	0.000	179.783	6600.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
6700.00†	0.000	179.783	6700.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
6800.00†	0.000	179.783	6800.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
6900.00†	0.000	179.783	6900.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
7000.00†	0.000	179.783	7000.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
7100.00†	0.000	179.783	7100.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
7200.00†	0.000	179.783	7200.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
7300.00†	0.000	179.783	7300.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
7400.00†	0.000	179.783	7400.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
7500.00†	0.000	179.783	7500.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
7600.00†	0.000	179.783	7600.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
7700.00†	0.000	179.783	7700.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
7800.00†	0.000	179.783	7800.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
7900.00†	0.000	179.783	7900.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
8000.00†	0.000	179.783	8000.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
8100.00†	0.000	179.783	8100.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
8200.00†	0.000	179.783	8200.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
8300.00†	0.000	179.783	8300.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
8400.00†	0.000	179.783	8400.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
8500.00†	0.000	179.783	8500.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
8600.00†	0.000	179.783	8600.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
8700.00†	0.000	179.783	8700.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
8800.00†	0.000	179.783	8800.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
8900.00†	0.000	179.783	8900.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	



Planned Wellpath Report

Prelim 1
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REFERENCE WELLPATH IDENTIFICATION

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Area	Lea County, NM	Well	No.1H
Field	(Querecho) Sec 36, T18S, R32E	Wellbore	No.1H PWB
Facility	Querecho 36 State No.1H		

WELLPATH DATA (144 stations) † = interpolated/extrapolated station

MD (ft)	Inclination [°]	Azimuth [°]	TVD (ft)	Vert Sect (ft)	North (ft)	East (ft)	Grid East (serv ft)	Grid North (serv ft)	Latitude	Longitude	DLS [°/100ft]	Comments
9000.00†	0.000	179.783	9000.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
9100.00†	0.000	179.783	9100.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
9200.00†	0.000	179.783	9200.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
9300.00†	0.000	179.783	9300.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	
9315.00	0.000	179.783	9315.00	0.00	0.00	0.00	727810.00	622652.70	32°42'36.892"N	103°43'37.455"W	0.00	Est KOP
9400.00†	17.085	179.783	9398.75	12.58	-12.58	0.05	727810.05	622640.12	32°42'36.768"N	103°43'37.455"W	20.10	
9500.00†	37.185	179.783	9487.28	57.95	-57.95	0.22	727810.22	622594.75	32°42'36.319"N	103°43'37.456"W	20.10	
9600.00†	57.285	179.783	9554.84	130.99	-130.99	0.50	727810.50	622521.71	32°42'35.596"N	103°43'37.458"W	20.10	
9700.00†	77.385	179.783	9593.17	222.80	-222.80	0.84	727810.84	622429.92	32°42'34.688"N	103°43'37.460"W	20.10	
9762.76	90.001	179.783	9600.05	285.06	-285.06	1.08	727811.08	622367.66	32°42'34.072"N	103°43'37.461"W	20.10	EOG
9800.00†	90.001	179.783	9600.05	322.29	-322.29	1.22	727811.22	622330.43	32°42'33.703"N	103°43'37.462"W	0.00	
9900.00†	90.001	179.783	9600.05	422.29	-422.29	1.60	727811.60	622230.43	32°42'32.714"N	103°43'37.464"W	0.00	
10000.00†	90.001	179.783	9600.05	522.29	-522.29	1.98	727811.98	622130.44	32°42'31.725"N	103°43'37.466"W	0.00	
10100.00†	90.001	179.783	9600.05	622.29	-622.29	2.36	727812.36	622030.45	32°42'30.735"N	103°43'37.469"W	0.00	
10200.00†	90.001	179.783	9600.05	722.29	-722.29	2.74	727812.74	621930.45	32°42'29.746"N	103°43'37.471"W	0.00	
10300.00†	90.001	179.783	9600.05	822.29	-822.29	3.12	727813.12	621830.46	32°42'28.756"N	103°43'37.473"W	0.00	
10400.00†	90.001	179.783	9600.05	922.29	-922.29	3.50	727813.50	621730.46	32°42'27.767"N	103°43'37.475"W	0.00	
10500.00†	90.001	179.783	9600.04	1022.29	-1022.29	3.87	727813.87	621630.47	32°42'26.777"N	103°43'37.478"W	0.00	
10600.00†	90.001	179.783	9600.04	1122.29	-1122.28	4.25	727814.25	621530.48	32°42'25.788"N	103°43'37.480"W	0.00	
10700.00†	90.001	179.783	9600.04	1222.29	-1222.28	4.63	727814.63	621430.48	32°42'24.798"N	103°43'37.482"W	0.00	
10800.00†	90.001	179.783	9600.04	1322.29	-1322.28	5.01	727815.01	621330.49	32°42'23.809"N	103°43'37.484"W	0.00	
10900.00†	90.001	179.783	9600.04	1422.29	-1422.28	5.39	727815.39	621230.49	32°42'22.820"N	103°43'37.487"W	0.00	
11000.00†	90.001	179.783	9600.04	1522.29	-1522.28	5.77	727815.77	621130.50	32°42'21.830"N	103°43'37.489"W	0.00	
11100.00†	90.001	179.783	9600.04	1622.29	-1622.28	6.15	727816.15	621030.51	32°42'20.841"N	103°43'37.491"W	0.00	
11200.00†	90.001	179.783	9600.04	1722.29	-1722.28	6.53	727816.53	620930.51	32°42'19.851"N	103°43'37.494"W	0.00	
11300.00†	90.001	179.783	9600.03	1822.29	-1822.28	6.91	727816.91	620830.52	32°42'18.862"N	103°43'37.496"W	0.00	
11400.00†	90.001	179.783	9600.03	1922.29	-1922.28	7.29	727817.29	620730.52	32°42'17.872"N	103°43'37.498"W	0.00	
11500.00†	90.001	179.783	9600.03	2022.29	-2022.28	7.66	727817.66	620630.53	32°42'16.883"N	103°43'37.500"W	0.00	
11600.00†	90.001	179.783	9600.03	2122.29	-2122.28	8.04	727818.04	620530.54	32°42'15.894"N	103°43'37.503"W	0.00	
11700.00†	90.001	179.783	9600.03	2222.29	-2222.28	8.42	727818.42	620430.54	32°42'14.904"N	103°43'37.505"W	0.00	
11800.00†	90.001	179.783	9600.03	2322.29	-2322.28	8.80	727818.80	620330.55	32°42'13.915"N	103°43'37.507"W	0.00	
11900.00†	90.001	179.783	9600.03	2422.29	-2422.28	9.18	727819.18	620230.55	32°42'12.925"N	103°43'37.509"W	0.00	
12000.00†	90.001	179.783	9600.03	2522.29	-2522.27	9.56	727819.56	620130.56	32°42'11.936"N	103°43'37.512"W	0.00	
12100.00†	90.001	179.783	9600.02	2622.29	-2622.27	9.94	727819.94	620030.57	32°42'10.946"N	103°43'37.514"W	0.00	
12200.00†	90.001	179.783	9600.02	2722.29	-2722.27	10.32	727820.32	619930.57	32°42'09.957"N	103°43'37.516"W	0.00	
12300.00†	90.001	179.783	9600.02	2822.29	-2822.27	10.70	727820.70	619830.58	32°42'08.967"N	103°43'37.518"W	0.00	
12400.00†	90.001	179.783	9600.02	2922.29	-2922.27	11.08	727821.08	619730.58	32°42'07.978"N	103°43'37.521"W	0.00	
12500.00†	90.001	179.783	9600.02	3022.29	-3022.27	11.45	727821.45	619630.59	32°42'06.989"N	103°43'37.523"W	0.00	
12600.00†	90.001	179.783	9600.02	3122.29	-3122.27	11.83	727821.83	619530.60	32°42'05.999"N	103°43'37.525"W	0.00	
12700.00†	90.001	179.783	9600.02	3222.29	-3222.27	12.21	727822.21	619430.60	32°42'05.010"N	103°43'37.527"W	0.00	
12800.00†	90.001	179.783	9600.02	3322.29	-3322.27	12.59	727822.59	619330.61	32°42'04.020"N	103°43'37.530"W	0.00	
12900.00†	90.001	179.783	9600.01	3422.29	-3422.27	12.97	727822.97	619230.61	32°42'03.031"N	103°43'37.532"W	0.00	
13000.00†	90.001	179.783	9600.01	3522.29	-3522.27	13.35	727823.35	619130.62	32°42'02.041"N	103°43'37.534"W	0.00	
13100.00†	90.001	179.783	9600.01	3622.29	-3622.27	13.73	727823.73	619030.63	32°42'01.052"N	103°43'37.536"W	0.00	
13200.00†	90.001	179.783	9600.01	3722.29	-3722.27	14.11	727824.11	618930.63	32°42'00.063"N	103°43'37.539"W	0.00	



Planned Wellpath Report

Prelim_1
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INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No.1H SHL
Area	Lea County, NM	Well	No.1H
Field	(Querecho) Sec 36, T18S, R32E	Wellbore	No.1H PWB
Facility	Querecho 36 State No.1H		

WELLPATH DATA (144 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
13300.00†	90.001	179.783	9600.01	3822.29	-3822.26	14.49	727824.49	618830.64	32°41'59.073"N	103°43'37.541"W	0.00	
13400.00†	90.001	179.783	9600.01	3922.29	-3922.26	14.87	727824.86	618730.64	32°41'58.084"N	103°43'37.543"W	0.00	
13500.00†	90.001	179.783	9600.01	4022.29	-4022.26	15.24	727825.24	618630.65	32°41'57.094"N	103°43'37.545"W	0.00	
13600.00†	90.001	179.783	9600.01	4122.29	-4122.26	15.62	727825.62	618530.66	32°41'56.105"N	103°43'37.548"W	0.00	
13700.00†	90.001	179.783	9600.00	4222.29	-4222.26	16.00	727826.00	618430.66	32°41'55.115"N	103°43'37.550"W	0.00	
13800.00†	90.001	179.783	9600.00	4322.29	-4322.26	16.38	727826.38	618330.67	32°41'54.126"N	103°43'37.552"W	0.00	
13900.00†	90.001	179.783	9600.00	4422.29	-4422.26	16.76	727826.76	618230.67	32°41'53.136"N	103°43'37.554"W	0.00	
14000.00†	90.001	179.783	9600.00	4522.29	-4522.26	17.14	727827.14	618130.68	32°41'52.147"N	103°43'37.557"W	0.00	
14097.94	90.001	179.783	9600.00	4620.23	-4620.20	17.51	727827.51	618032.75	32°41'51.178"N	103°43'37.559"W	0.00	Querecho 36 State No.1H PBHL

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) Querecho 36 State No.1H PBHL	14097.94	9600.00	-4620.20	17.51	727827.51	618032.75	32°41'51.178"N	103°43'37.559"W	point

SURVEY PROGRAM Ref Wellbore: No.1H PWB Ref Wellpath: Prelim_1

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	14098.75	NaviTrak (Standard)		No.1H PWB