

HOBBS OCD

FEB 14 2012

DISTRICT I

1635 N. French Dr., Hobbs, NM 88210

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

RECEIVED

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 30-025-40444	Pool Code 50600	Pool Name Querecho Plains; Upper Bone Spring
Property Code 38499	Property Name QUERECHO 36 STATE COM	Well Number 3
OGRIID 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
B	36	18 S	32 E		260	NORTH	1980	EAST	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
O	36	18 S	32 E		330	SOUTH	1980	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			NSL PENDING

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°42'37.519" Long - W 103°43'03.612" NMSPC - N 622732.7 E 730701.2 (NAD-83)	SL 1980' EOC 546' FSL 1982' FEL	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. Signature: <i>Terri Stathem</i> Date: 2/13/12 Printed Name: Terri Stathem Email Address: tstathem@cimarex.com
PROPOSED BOTTOM HOLE LOCATION Lat - N 32°41'51.094" Long - W 103°43'03.569" NMSPC - N 618040.94 E 730732.07 (NAD-83)	B.H. 1980'	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: JANUARY 11, 2011 Signature & Seal of Professional Surveyor: <i>[Signature]</i> Certificate No. Gary L. Jones 7977 BASIN SURVEYS 24012

FEB 16 2012

Location	Lea County, NM
Field	(Querecho) Sec 36, T18S R32E
Facility	Querecho 36 State No. 311

Slot	NO 3H SHL
Well	No 3H
Wellbore	No 3H PWB

Well Profile Data

Well Profile Data								
Design Component	TD (ft)	Log (ft)	Az (°)	TVC (ft)	Total H (ft)	Core E (ft)	DLS (x1000)	VS (ft)
Log On	0.00	0.000	179.623	0.00	0.00	6.50	0.00	0.00
KOP	9313.52	0.000	179.623	5313.52	0.00	0.00	0.00	0.00
EOG	9761.52	50.000	179.623	9500.00	-286.47	1.23	20.00	203.48
Final Profit	14160.19	90.000	179.623	9500.00	-462.00	30.87	0.00	4592.10

Plot re's once pe'pains Pic'm 1

This vertical display is referred to as on F.O. 3H SHL (GL)

1. ^aeasy ed dentals are referenced to R on NO 3 (SHL (GI)

Report NO 3H SHL (GULF Mean Sea Level 3731 feet)

Plan Sec 1, c/o Red Inc (Fax: Overgo 96 State Ho JH) 3734 locl

Coordinates are in feet relative to S'et Loc.

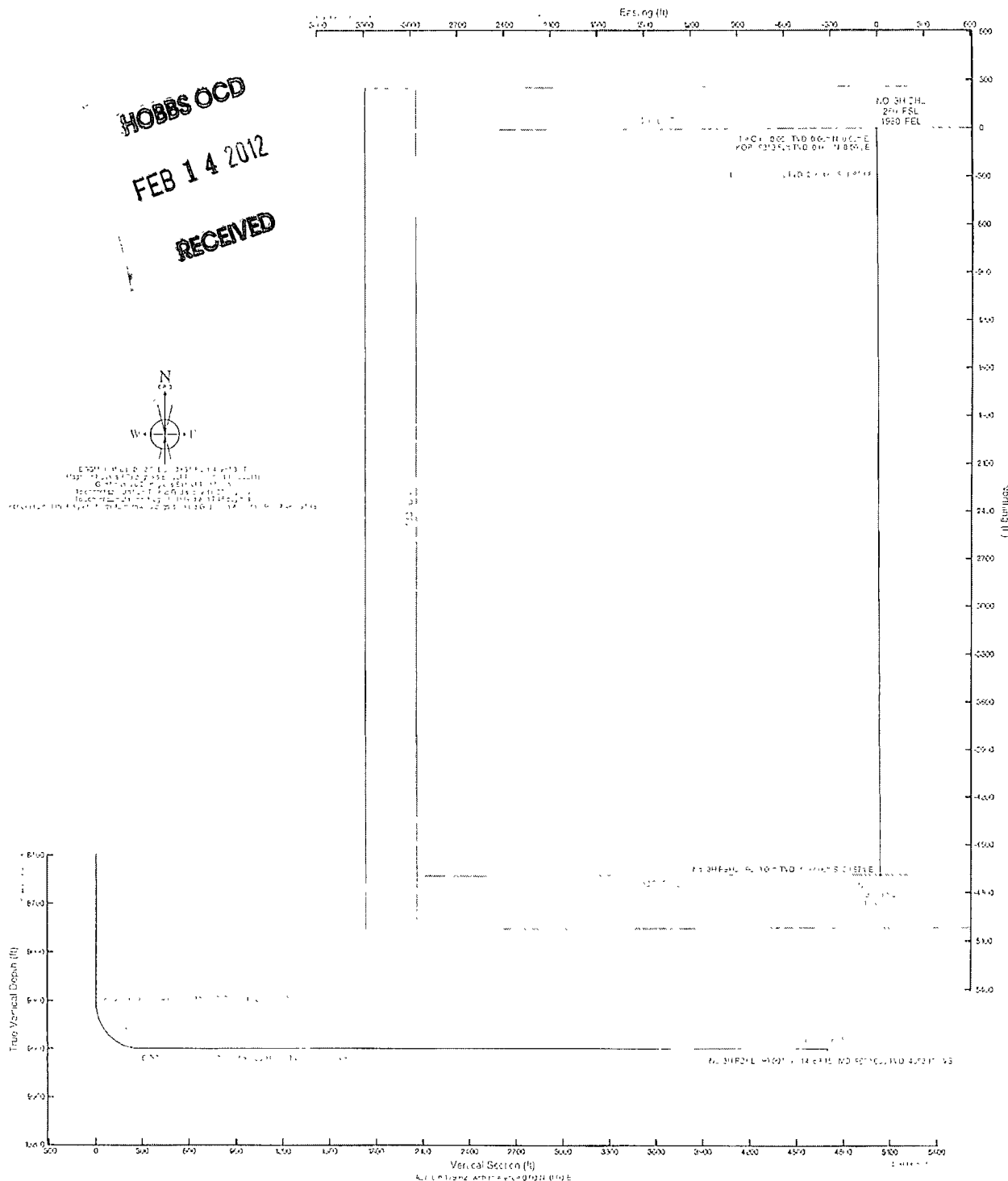
Grid System: NAD83 / ILM New Mexico State Planes, Eastern Zone (3001), US foot

North Reference (and north)

Scale True distance

Depths are in feet

Created by CamScanner on 12/20/2011





Planned Wellpath Report

Prelim_1

Page 1 of 5

**BAKER
HUGHES**

Operator	Cimarex Energy Co.	Slot	NO. 3H SHL
Area	Lea County, NM	Well	No. 3H
Field	(Querecho) Sec 36, T18S, R32E	Wellbore	No. 3H PWB
Facility	Querecho 36 State No. 3H		

Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Calhphik
Scale	0.99995	Report Generated	1/27/2011 at 1:11:36 PM
Convergence at slot	0.33° East	Database/Source file	WellArchitectDB/No. 3H_PWB.xml

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W
Facility Reference Pt			730701.20	622732.70	32°42'37.519"N	103°43'03.611"W
Field Reference Pt			729389.60	622658.30	32°42'36.858"N	103°43'18.967"W

Calculation method	Minimum curvature	Rig on NO. 3H SHL (GL) to GL	0.00ft
Horizontal Reference Pt	Slot Loc	Rig on NO. 3H SHL (GL) to Mean Sea Level	3731.00ft
Vertical Reference Pt	Rig on NO. 3H SHL (GL)	GL to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on NO. 3H SHL (GL)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.62°



Planned Wellpath Report

Prelim_1

Page 2 of 5



Operator	Cimarex Energy Co.	Slot	NO. 3H SHL
Area	Lea County, NM	Well	No. 3H
Field	(Querecho) Sec 36, T18S, R32E	Wellbore	No. 3H PWB
Facility	Querecho 36 State No. 3H		

WELLPATH DATA (145 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	179.623	0.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	File On
100.00†	0.000	179.623	100.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
200.00†	0.000	179.623	200.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
300.00†	0.000	179.623	300.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
400.00†	0.000	179.623	400.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
500.00†	0.000	179.623	500.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
600.00†	0.000	179.623	600.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
700.00†	0.000	179.623	700.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
800.00†	0.000	179.623	800.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
900.00†	0.000	179.623	900.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
1000.00†	0.000	179.623	1000.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
1100.00†	0.000	179.623	1100.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
1200.00†	0.000	179.623	1200.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
1300.00†	0.000	179.623	1300.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
1400.00†	0.000	179.623	1400.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
1500.00†	0.000	179.623	1500.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
1600.00†	0.000	179.623	1600.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
1700.00†	0.000	179.623	1700.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
1800.00†	0.000	179.623	1800.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
1900.00†	0.000	179.623	1900.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
2000.00†	0.000	179.623	2000.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
2100.00†	0.000	179.623	2100.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
2200.00†	0.000	179.623	2200.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
2300.00†	0.000	179.623	2300.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
2400.00†	0.000	179.623	2400.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
2500.00†	0.000	179.623	2500.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
2600.00†	0.000	179.623	2600.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
2700.00†	0.000	179.623	2700.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
2800.00†	0.000	179.623	2800.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
2900.00†	0.000	179.623	2900.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
3000.00†	0.000	179.623	3000.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
3100.00†	0.000	179.623	3100.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
3200.00†	0.000	179.623	3200.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
3300.00†	0.000	179.623	3300.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
3400.00†	0.000	179.623	3400.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
3500.00†	0.000	179.623	3500.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
3600.00†	0.000	179.623	3600.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
3700.00†	0.000	179.623	3700.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
3800.00†	0.000	179.623	3800.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
3900.00†	0.000	179.623	3900.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
4000.00†	0.000	179.623	4000.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
4100.00†	0.000	179.623	4100.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
4200.00†	0.000	179.623	4200.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
4300.00†	0.000	179.623	4300.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
4400.00†	0.000	179.623	4400.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	



Planned Wellpath Report

Prelim_1
Page 3 of 5



WELL IDENTIFICATION				WELL INFORMATION	
Operator	Cimarex Energy Co.			Slot	NO. 3H SHL
Area	Lea County, NM			Well	No. 3H
Field	(Querecho) Sec 36, T18S, R32E			Wellbore	No. 3H PWB
Facility	Querecho 36 State No. 3H				

WELLPATH DATA (145 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [sxy ft]	Grid North [sxy ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4500.00†	0.000	179.623	4500.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
4600.00†	0.000	179.623	4600.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
4700.00†	0.000	179.623	4700.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
4800.00†	0.000	179.623	4800.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
4900.00†	0.000	179.623	4900.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
5000.00†	0.000	179.623	5000.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
5100.00†	0.000	179.623	5100.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
5200.00†	0.000	179.623	5200.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
5300.00†	0.000	179.623	5300.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
5400.00†	0.000	179.623	5400.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
5500.00†	0.000	179.623	5500.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
5600.00†	0.000	179.623	5600.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
5700.00†	0.000	179.623	5700.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
5800.00†	0.000	179.623	5800.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
5900.00†	0.000	179.623	5900.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
6000.00†	0.000	179.623	6000.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
6100.00†	0.000	179.623	6100.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
6200.00†	0.000	179.623	6200.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
6300.00†	0.000	179.623	6300.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
6400.00†	0.000	179.623	6400.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
6500.00†	0.000	179.623	6500.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
6600.00†	0.000	179.623	6600.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
6700.00†	0.000	179.623	6700.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
6800.00†	0.000	179.623	6800.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
6900.00†	0.000	179.623	6900.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
7000.00†	0.000	179.623	7000.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
7100.00†	0.000	179.623	7100.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
7200.00†	0.000	179.623	7200.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
7300.00†	0.000	179.623	7300.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
7400.00†	0.000	179.623	7400.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
7500.00†	0.000	179.623	7500.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
7600.00†	0.000	179.623	7600.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
7700.00†	0.000	179.623	7700.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
7800.00†	0.000	179.623	7800.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
7900.00†	0.000	179.623	7900.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
8000.00†	0.000	179.623	8000.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
8100.00†	0.000	179.623	8100.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
8200.00†	0.000	179.623	8200.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
8300.00†	0.000	179.623	8300.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
8400.00†	0.000	179.623	8400.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
8500.00†	0.000	179.623	8500.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
8600.00†	0.000	179.623	8600.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
8700.00†	0.000	179.623	8700.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
8800.00†	0.000	179.623	8800.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
8900.00†	0.000	179.623	8900.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	



Planned Wellpath Report

Prelim_1

Page 4 of 5

**BAKER
HUGHES**

Operator	Cimarex Energy Co.	Slot	NO. 3H SHL
Area	Lea County, NM	Well	No. 3H
Field	(Querecho) Sec 36, T18S, R32E	Wellbore	No. 3H PWB
Facility	Querecho 36 State No. 3H		

WELLPATH DATA (145 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Secf [ft]	North [ft]	East [ft]	Grid East [serv ft]	Grid North [serv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
9000.00†	0.000	179.623	9000.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
9100.00†	0.000	179.623	9100.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
9200.00†	0.000	179.623	9200.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
9300.00†	0.000	179.623	9300.00	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	
9313.52	0.000	179.623	9313.52	0.00	0.00	0.00	730701.20	622732.70	32°42'37.519"N	103°43'03.611"W	0.00	KOP
9400.00†	17.296	179.623	9398.69	12.95	-12.95	0.09	730701.29	622719.75	32°42'37.391"N	103°43'03.611"W	20.00	
9500.00†	37.296	179.623	9487.11	58.58	-58.58	0.39	730701.59	622674.12	32°42'36.939"N	103°43'03.611"W	20.00	
9600.00†	57.296	179.623	9554.58	131.69	-131.69	0.87	730702.07	622601.02	32°42'36.216"N	103°43'03.610"W	20.00	
9700.00†	77.296	179.623	9592.99	223.48	-223.47	1.47	730702.67	622509.24	32°42'35.308"N	103°43'03.609"W	20.00	
9763.52	90.000	179.623	9600.00	286.48	-286.47	1.88	730703.08	622446.24	32°42'34.684"N	103°43'03.609"W	20.00	EOC
9800.00†	90.000	179.623	9600.00	322.96	-322.95	2.12	730703.32	622409.77	32°42'34.324"N	103°43'03.608"W	0.00	
9900.00†	90.000	179.623	9600.00	422.96	-422.95	2.78	730703.98	622309.77	32°42'33.334"N	103°43'03.607"W	0.00	
10000.00†	90.000	179.623	9600.00	522.96	-522.95	3.44	730704.64	622209.78	32°42'32.345"N	103°43'03.606"W	0.00	
10100.00†	90.000	179.623	9600.00	622.96	-622.94	4.10	730705.30	622109.79	32°42'31.355"N	103°43'03.606"W	0.00	
10200.00†	90.000	179.623	9600.00	722.96	-722.91	4.76	730705.96	622009.80	32°42'30.366"N	103°43'03.605"W	0.00	
10300.00†	90.000	179.623	9600.00	822.96	-822.94	5.41	730706.61	621909.80	32°42'29.376"N	103°43'03.604"W	0.00	
10400.00†	90.000	179.623	9600.00	922.96	-922.91	6.07	730707.27	621809.81	32°42'28.387"N	103°43'03.603"W	0.00	
10500.00†	90.000	179.623	9600.00	1022.96	-1022.94	6.73	730707.93	621709.82	32°42'27.397"N	103°43'03.602"W	0.00	
10600.00†	90.000	179.623	9600.00	1122.96	-1122.93	7.39	730708.59	621609.82	32°42'26.408"N	103°43'03.601"W	0.00	
10700.00†	90.000	179.623	9600.00	1222.96	-1222.93	8.05	730709.25	621509.83	32°42'25.419"N	103°43'03.600"W	0.00	
10800.00†	90.000	179.623	9600.00	1322.96	-1322.93	8.70	730709.90	621409.84	32°42'24.429"N	103°43'03.599"W	0.00	
10900.00†	90.000	179.623	9600.00	1422.96	-1422.93	9.36	730710.56	621309.85	32°42'23.440"N	103°43'03.598"W	0.00	
11000.00†	90.000	179.623	9600.00	1522.96	-1522.92	10.02	730711.22	621209.85	32°42'22.450"N	103°43'03.597"W	0.00	
11100.00†	90.000	179.623	9600.00	1622.96	-1622.92	10.68	730711.88	621109.86	32°42'21.461"N	103°43'03.597"W	0.00	
11200.00†	90.000	179.623	9600.00	1722.96	-1722.92	11.34	730712.54	621009.87	32°42'20.471"N	103°43'03.596"W	0.00	
11300.00†	90.000	179.623	9600.00	1822.96	-1822.92	11.99	730713.19	620909.88	32°42'19.482"N	103°43'03.595"W	0.00	
11400.00†	90.000	179.623	9600.00	1922.96	-1922.92	12.65	730713.85	620809.88	32°42'18.493"N	103°43'03.594"W	0.00	
11500.00†	90.000	179.623	9600.00	2022.96	-2022.91	13.31	730714.51	620709.89	32°42'17.503"N	103°43'03.593"W	0.00	
11600.00†	90.000	179.623	9600.00	2122.96	-2122.91	13.97	730715.17	620609.90	32°42'16.514"N	103°43'03.592"W	0.00	
11700.00†	90.000	179.623	9600.00	2222.96	-2222.91	14.63	730715.83	620509.91	32°42'15.524"N	103°43'03.591"W	0.00	
11800.00†	90.000	179.623	9600.00	2322.96	-2322.91	15.28	730716.48	620409.91	32°42'14.535"N	103°43'03.590"W	0.00	
11900.00†	90.000	179.623	9600.00	2422.96	-2422.91	15.94	730717.14	620309.92	32°42'13.545"N	103°43'03.589"W	0.00	
12000.00†	90.000	179.623	9600.00	2522.96	-2522.90	16.60	730717.80	620209.93	32°42'12.556"N	103°43'03.588"W	0.00	
12100.00†	90.000	179.623	9600.00	2622.96	-2622.90	17.26	730718.46	620109.93	32°42'11.566"N	103°43'03.587"W	0.00	
12200.00†	90.000	179.623	9600.00	2722.96	-2722.90	17.92	730719.11	620009.94	32°42'10.577"N	103°43'03.587"W	0.00	
12300.00†	90.000	179.623	9600.00	2822.96	-2822.90	18.57	730719.77	619909.95	32°42'09.588"N	103°43'03.586"W	0.00	
12400.00†	90.000	179.623	9600.00	2922.96	-2922.89	19.23	730720.43	619809.96	32°42'08.598"N	103°43'03.585"W	0.00	
12500.00†	90.000	179.623	9600.00	3022.96	-3022.89	19.89	730721.09	619709.96	32°42'07.609"N	103°43'03.584"W	0.00	
12600.00†	90.000	179.623	9600.00	3122.96	-3122.89	20.55	730721.75	619609.97	32°42'06.619"N	103°43'03.583"W	0.00	
12700.00†	90.000	179.623	9600.00	3222.96	-3222.89	21.21	730722.40	619509.98	32°42'05.630"N	103°43'03.582"W	0.00	
12800.00†	90.000	179.623	9600.00	3322.96	-3322.89	21.86	730723.06	619409.99	32°42'04.640"N	103°43'03.581"W	0.00	
12900.00†	90.000	179.623	9600.00	3422.96	-3422.88	22.52	730723.72	619309.99	32°42'03.651"N	103°43'03.580"W	0.00	
13000.00†	90.000	179.623	9600.00	3522.96	-3522.88	23.18	730724.38	619210.00	32°42'02.662"N	103°43'03.579"W	0.00	
13100.00†	90.000	179.623	9600.00	3622.96	-3622.88	23.84	730725.04	619110.01	32°42'01.672"N	103°43'03.578"W	0.00	
13200.00†	90.000	179.623	9600.00	3722.96	-3722.88	24.50	730725.69	619010.02	32°42'00.683"N	103°43'03.577"W	0.00	



Planned Wellpath Report

Prelim_1

Page 5 of 5



Operator	Cimarex Energy Co.	Slot	NO. 3H SHL
Area	Lea County, NM	Well	No. 3H
Field	(Querecho) Sec 36, T18S, R32E	Wellbore	No. 3H PWB
Facility	Querecho 36 State No. 3H		

WELLPATH DATA (145 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [suv ft]	Grid North [suv ft]	Latitude	Longitude	DLS [%/100ft]	Comments
13300.00	90.000	179.623	9600.00	3822.96	-3822.88	25.15	730726.35	618910.02	32°41'59.693"N	103°43'03.577"W	0.00	
13400.00†	90.000	179.623	9600.00	3922.96	-3922.87	25.81	730727.01	618810.03	32°41'58.704"N	103°43'03.576"W	0.00	
13500.00†	90.000	179.623	9600.00	4022.96	-4022.87	26.47	730727.67	618710.04	32°41'57.714"N	103°43'03.575"W	0.00	
13600.00†	90.000	179.623	9600.00	4122.96	-4122.87	27.13	730728.33	618610.05	32°41'56.725"N	103°43'03.574"W	0.00	
13700.00†	90.000	179.623	9600.00	4222.96	-4222.87	27.78	730728.98	618510.05	32°41'55.735"N	103°43'03.573"W	0.00	
13800.00†	90.000	179.623	9600.00	4322.96	-4322.86	28.44	730729.64	618410.06	32°41'54.746"N	103°43'03.572"W	0.00	
13900.00†	90.000	179.623	9600.00	4422.96	-4422.86	29.10	730730.30	618310.07	32°41'53.757"N	103°43'03.571"W	0.00	
14000.00†	90.000	179.623	9600.00	4522.96	-4522.86	29.76	730730.96	618210.07	32°41'52.767"N	103°43'03.570"W	0.00	
14100.00†	90.000	179.623	9600.00	4622.96	-4622.86	30.42	730731.62	618110.08	32°41'51.778"N	103°43'03.569"W	0.00	
14169.15	90.000	179.623	9600.00	4692.10	-4692.00	30.87	730732.07	618040.94	32°41'51.094"N	103°43'03.569"W	0.00	No. 3H PBHL

HOLE & CASING SECTIONS Ref Wellbore: No. 3H 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]
17.5in Open Hole	0.00	500.00	500.00	0.00	500.00	0.00	0.00	0.00	0.00
13.375in Casing	0.00	500.00	500.00	0.00	500.00	0.00	0.00	0.00	0.00
12.25in Open Hole	500.00	4600.00	4100.00	500.00	4600.00	0.00	0.00	0.00	0.00
9.625in Casing	500.00	4600.00	4100.00	500.00	4600.00	0.00	0.00	0.00	0.00
8.75in Open Hole	4600.00	14169.15	9569.15	4600.00	NA	0.00	0.00	NA	NA
5.5in Casing	4600.00	14169.15	9569.15	4600.00	NA	0.00	0.00	NA	NA

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [suv ft]	Grid North [suv ft]	Latitude	Longitude	Shape
1) No. 3H PBHL	14169.15	9600.00	-4692.00	30.87	730732.07	618040.94	32°41'51.094"N	103°43'03.569"W	point

SURVEY PROGRAM Ref Wellbore: No. 3H PWB Ref Wellpath: Prelim_1

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	14169.15	NaviTrak (Standard)		No. 3H PWB

FEB 16 2012