

HOBBS OCD

DISTRICT I

1025 H. French Dr., Hobbs, NM 88240

DISTRICT II

1501 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

FEB 14 2012

State of New Mexico
Energy, Minerals and Natural Resources DepartmentForm C-102
Revised July 10, 2010Submit one copy to appropriate
District Office

RECEIVED OIL CONSERVATION DIVISION

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-40443	Pool Code 50600	Pool Name Querecho Plains; Upper Bone Spring
Property Code 38499	Property Name QUERECHO 36 STATE COM	Well Number 2
GRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3729'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	36	18 S	32 E		330	NORTH	1980	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
N	36	18 S	32 E		330	SOUTH	1980	WEST	LEA
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.						

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°42'36.857" Long - W 103°43'18.967" NMSPC - N 622658.3 E 729389.6 (NAD-83) PROPOSED BOTTOM HOLE LOCATION Lat - N 32°41'51.138" Long - W 103°43'19.073" NMSPC - N 618037.77 E 729407.15 (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. Signature: <i>Terri Stathem</i> Date: 2/13/12 Printed Name: Terri Stathem Email Address: tstathem@cimarex.com 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: <i>[Signature]</i> Seal: Professional Surveyor W.O. No. 24011 Certificante No. Gary L. Jones 7977 BASIN SURVEYS 24011
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FEB 16 2012



Cimarex Energy Co.

Location Lea County, NM
Field (Querecho) Sec 36, T18S, R32E
Facility Querecho 36 State No. 2H

Shot No 2H SHL
Well No 2H
Wellbore No 2H PWB



Well Profile Data

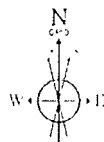
Depth (ft)	MD (ft)	Log (ft)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (ft)	VS (ft)
0.00	0.00	0.00	179.782	0.00	0.00	0.00	0.00	0.00
9313.52	9313.52	6.000	179.782	9313.52	0.00	0.00	0.00	6.00
9329.52	9329.52	90.000	179.782	9400.00	-275.49	1.09	29.00	255.48
No. 2H PWB	11927.85	50.000	179.782	9500.00	-4520.77	17.55	0.00	4520.51

Plot reference well path is Plot No. 1	Grid System: NAD83 / 1M North, Mexico State Plane, Eastern Zone (3001) US feet
True vertical depth is referenced to Rig on No. 2H SHL (GL)	Local Reference: Grid north
Measured depth is referenced to Rig on No. 2H SHL (GL)	Scale: True distance
Rig on No. 2H SHL (GL) to Mean Sea Level: 3729 feet	Depths are in feet
Mean Sea Level to Mean Line gravity: Querecho 36 State No. 2H - 9729 feet	Created by: campk on 1/25/2011
Coordinates are in feet referenced to Shot Log	

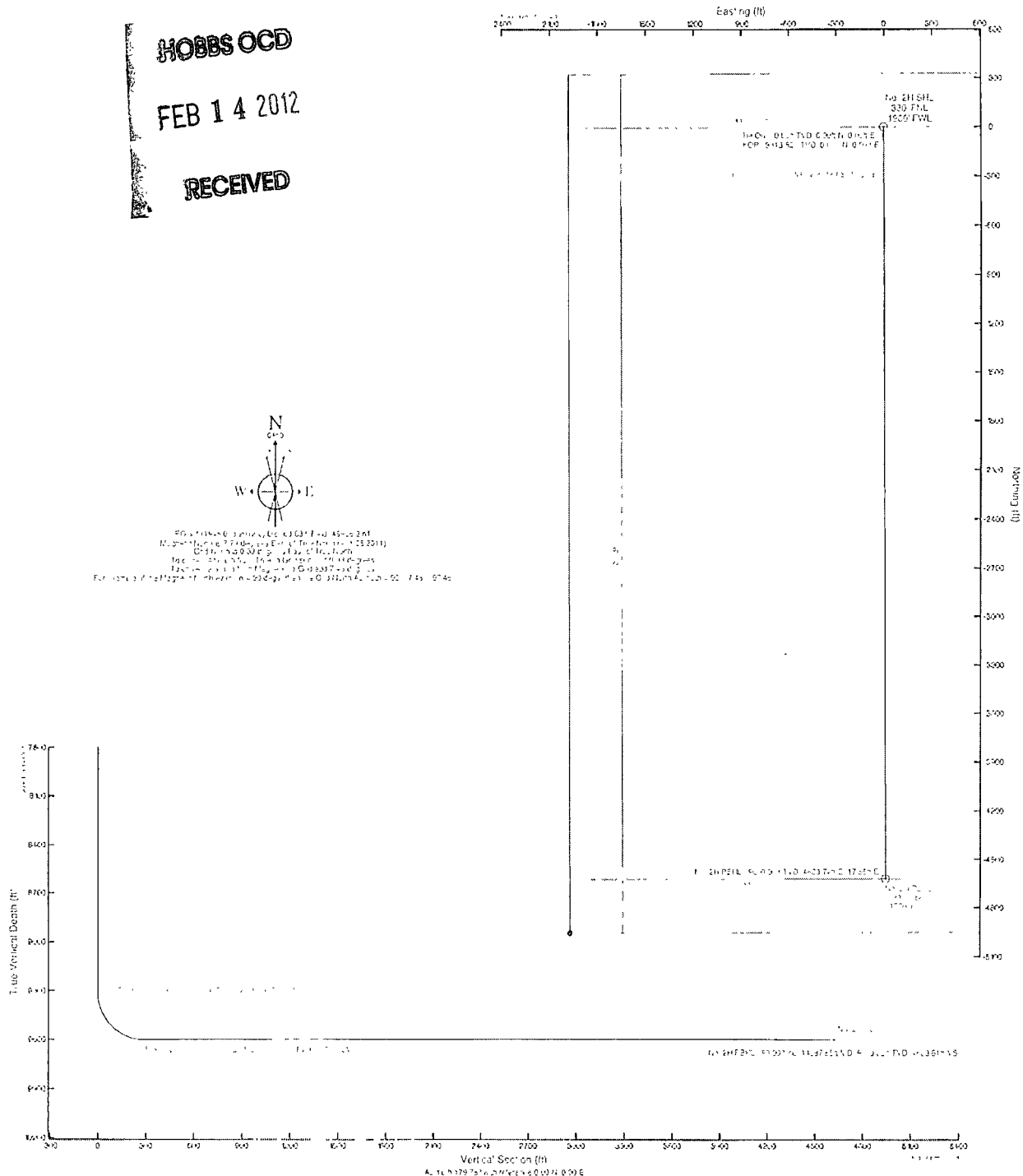
HOBBS OCD

FEB 14 2012

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For more information, please contact the following:
Mr. [Name] at [Phone Number]
[Address]
[City, State, Zip]
[Email Address]





Planned Wellpath Report

Prelim_1

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Operator Cimarex Energy Co.

Slot

No. 2H SHL

Area Lea County, NM

Well

No. 2H

Field (Querecho) Sec 36, T18S, R32E

Wellbore

No. 2H PWB

Facility Querecho 36 State No. 2H

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 1:19:31 PM

Convergence at slot 0.33° East

Database/Source file

WellArchitectDB/No. 2H_PWB.xml

Local coordinates

Grid coordinates

Geographic coordinates

North[ft]

East[ft]

Easting[USft]

Northing[USft]

Latitude

Longitude

Slot Location

0.00

0.00

729389.60

622658.30

32°42'36.858"N

103°43'18.967"W

Facility Reference Pt

729389.60

622658.30

32°42'36.858"N

103°43'18.967"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. 2H SHL (GL) to GL

0.00ft

Horizontal Reference Pt Slot Loc

Rig on No. 2H SHL (GL) to Mean Sea Level

3729.00ft

Vertical Reference Pt Rig on No. 2H SHL (GL)

GL to Mud Line (Facility)

0.00ft

MD Reference Pt Rig on No. 2H SHL (GL)

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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Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Lea County, NM	Well	No. 2H
Field	(Querecho) Sec 36, T18S, R32E	Wellbore	No. 2H PWB
Facility	Querecho 36 State No. 2H		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [sry ft]	Grid North [sry ft]	Latitude	Longitude	DIS [°/100ft]	Comments
0.00	0.000	179.782	0.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	Tie On
100.00	0.000	179.782	100.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
200.00	0.000	179.782	200.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
300.00	0.000	179.782	300.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
400.00	0.000	179.782	400.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
500.00	0.000	179.782	500.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
600.00	0.000	179.782	600.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
700.00	0.000	179.782	700.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
800.00	0.000	179.782	800.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
900.00	0.000	179.782	900.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
1000.00	0.000	179.782	1000.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
1100.00	0.000	179.782	1100.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
1200.00	0.000	179.782	1200.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
1300.00	0.000	179.782	1300.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
1400.00	0.000	179.782	1400.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
1500.00	0.000	179.782	1500.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
1600.00	0.000	179.782	1600.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
1700.00	0.000	179.782	1700.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
1800.00	0.000	179.782	1800.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
1900.00	0.000	179.782	1900.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
2000.00	0.000	179.782	2000.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
2100.00	0.000	179.782	2100.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
2200.00	0.000	179.782	2200.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
2300.00	0.000	179.782	2300.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
2400.00	0.000	179.782	2400.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
2500.00	0.000	179.782	2500.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
2600.00	0.000	179.782	2600.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
2700.00	0.000	179.782	2700.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
2800.00	0.000	179.782	2800.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
2900.00	0.000	179.782	2900.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
3000.00	0.000	179.782	3000.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
3100.00	0.000	179.782	3100.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
3200.00	0.000	179.782	3200.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
3300.00	0.000	179.782	3300.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
3400.00	0.000	179.782	3400.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
3500.00	0.000	179.782	3500.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
3600.00	0.000	179.782	3600.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
3700.00	0.000	179.782	3700.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
3800.00	0.000	179.782	3800.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
3900.00	0.000	179.782	3900.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
4000.00	0.000	179.782	4000.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
4100.00	0.000	179.782	4100.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
4200.00	0.000	179.782	4200.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
4300.00	0.000	179.782	4300.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
4400.00	0.000	179.782	4400.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	



Planned Wellpath Report

Prelim_1

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**BAKER
HUGHES**

Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Lea County, NM	Well	No. 2H
Field	(Querecho) Sec 36, T18S, R32E	Wellbore	No. 2H PWB
Facility	Querecho 36 State No. 2H		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [sev ft]	Grid North [sty ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4500.00†	0.000	179.782	4500.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
4600.00†	0.000	179.782	4600.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
4700.00†	0.000	179.782	4700.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
4800.00†	0.000	179.782	4800.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
4900.00†	0.000	179.782	4900.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
5000.00†	0.000	179.782	5000.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
5100.00†	0.000	179.782	5100.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
5200.00†	0.000	179.782	5200.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
5300.00†	0.000	179.782	5300.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
5400.00†	0.000	179.782	5400.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
5500.00†	0.000	179.782	5500.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
5600.00†	0.000	179.782	5600.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
5700.00†	0.000	179.782	5700.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
5800.00†	0.000	179.782	5800.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
5900.00†	0.000	179.782	5900.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
6000.00†	0.000	179.782	6000.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
6100.00†	0.000	179.782	6100.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
6200.00†	0.000	179.782	6200.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
6300.00†	0.000	179.782	6300.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
6400.00†	0.000	179.782	6400.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
6500.00†	0.000	179.782	6500.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
6600.00†	0.000	179.782	6600.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
6700.00†	0.000	179.782	6700.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
6800.00†	0.000	179.782	6800.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
6900.00†	0.000	179.782	6900.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
7000.00†	0.000	179.782	7000.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
7100.00†	0.000	179.782	7100.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
7200.00†	0.000	179.782	7200.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
7300.00†	0.000	179.782	7300.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
7400.00†	0.000	179.782	7400.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
7500.00†	0.000	179.782	7500.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
7600.00†	0.000	179.782	7600.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
7700.00†	0.000	179.782	7700.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
7800.00†	0.000	179.782	7800.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
7900.00†	0.000	179.782	7900.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
8000.00†	0.000	179.782	8000.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
8100.00†	0.000	179.782	8100.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
8200.00†	0.000	179.782	8200.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
8300.00†	0.000	179.782	8300.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
8400.00†	0.000	179.782	8400.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
8500.00†	0.000	179.782	8500.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
8600.00†	0.000	179.782	8600.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
8700.00†	0.000	179.782	8700.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
8800.00†	0.000	179.782	8800.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
8900.00†	0.000	179.782	8900.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	



Planned Wellpath Report

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**BAKER
HUGHES**

Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Lea County, NM	Well	No. 2H
Field	(Querecho) Sec 36, T18S, R32E	Wellbore	No. 2H PWB
Facility	Querecho 36 State No. 2H		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [svy ft]	Grid North [svy ft]	Latitude	Longitude	DLS [°/100ft]	Comments
9000.00†	0.000	179.782	9000.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
9100.00†	0.000	179.782	9100.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
9200.00†	0.000	179.782	9200.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
9300.00†	0.000	179.782	9300.00	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	
9313.52	0.000	179.782	9313.52	0.00	0.00	0.00	729389.60	622658.30	32°42'36.858"N	103°43'18.967"W	0.00	KOP
9400.00†	17.296	179.782	9398.69	12.95	-12.95	0.05	729389.65	622645.35	32°42'36.730"N	103°43'18.967"W	20.00	
9500.00†	37.296	179.782	9487.11	58.58	-58.58	0.22	729389.82	622599.72	32°42'36.278"N	103°43'18.968"W	20.00	
9600.00†	57.296	179.782	9554.58	131.69	-131.69	0.50	729390.10	622526.61	32°42'35.555"N	103°43'18.970"W	20.00	
9700.00†	77.296	179.782	9592.99	223.48	-223.48	0.85	729390.45	622434.84	32°42'34.647"N	103°43'18.972"W	20.00	
9763.52	90.000	179.782	9600.00	286.48	-286.48	1.09	729390.69	622371.84	32°42'34.023"N	103°43'18.974"W	20.00	FOC
9800.00†	90.000	179.782	9600.00	322.96	-322.96	1.23	729390.83	622335.36	32°42'33.662"N	103°43'18.974"W	0.00	
9900.00†	90.000	179.782	9600.00	422.96	-422.95	1.61	729391.21	622235.37	32°42'32.673"N	103°43'18.977"W	0.00	
10000.00†	90.000	179.782	9600.00	522.96	-522.95	1.99	729391.59	622135.37	32°42'31.684"N	103°43'18.979"W	0.00	
10100.00†	90.000	179.782	9600.00	622.96	-622.95	2.37	729391.97	622035.38	32°42'30.694"N	103°43'18.981"W	0.00	
10200.00†	90.000	179.782	9600.00	722.96	-722.95	2.75	729392.35	621935.39	32°42'29.705"N	103°43'18.984"W	0.00	
10300.00†	90.000	179.782	9600.00	822.96	-822.95	3.13	729392.73	621835.39	32°42'28.715"N	103°43'18.986"W	0.00	
10400.00†	90.000	179.782	9600.00	922.96	-922.95	3.51	729393.11	621735.40	32°42'27.726"N	103°43'18.988"W	0.00	
10500.00†	90.000	179.782	9600.00	1022.96	-1022.95	3.89	729393.49	621635.40	32°42'26.736"N	103°43'18.991"W	0.00	
10600.00†	90.000	179.782	9600.00	1122.96	-1122.95	4.27	729393.87	621535.41	32°42'25.747"N	103°43'18.993"W	0.00	
10700.00†	90.000	179.782	9600.00	1222.96	-1222.95	4.65	729394.24	621435.42	32°42'24.758"N	103°43'18.995"W	0.00	
10800.00†	90.000	179.782	9600.00	1322.96	-1322.95	5.02	729394.62	621335.42	32°42'23.768"N	103°43'18.997"W	0.00	
10900.00†	90.000	179.782	9600.00	1422.96	-1422.95	5.40	729395.00	621235.43	32°42'22.779"N	103°43'19.000"W	0.00	
11000.00†	90.000	179.782	9600.00	1522.96	-1522.95	5.78	729395.38	621135.43	32°42'21.789"N	103°43'19.002"W	0.00	
11100.00†	90.000	179.782	9600.00	1622.96	-1622.95	6.16	729395.76	621035.44	32°42'20.800"N	103°43'19.004"W	0.00	
11200.00†	90.000	179.782	9600.00	1722.96	-1722.95	6.54	729396.14	620935.44	32°42'19.810"N	103°43'19.007"W	0.00	
11300.00†	90.000	179.782	9600.00	1822.96	-1822.94	6.92	729396.52	620835.45	32°42'18.821"N	103°43'19.009"W	0.00	
11400.00†	90.000	179.782	9600.00	1922.96	-1922.94	7.30	729396.90	620735.46	32°42'17.831"N	103°43'19.011"W	0.00	
11500.00†	90.000	179.782	9600.00	2022.96	-2022.94	7.68	729397.28	620635.46	32°42'16.842"N	103°43'19.014"W	0.00	
11600.00†	90.000	179.782	9600.00	2122.96	-2122.94	8.06	729397.66	620535.47	32°42'15.853"N	103°43'19.016"W	0.00	
11700.00†	90.000	179.782	9600.00	2222.96	-2222.94	8.44	729398.04	620435.47	32°42'14.863"N	103°43'19.018"W	0.00	
11800.00†	90.000	179.782	9600.00	2322.96	-2322.91	8.82	729398.42	620335.48	32°42'13.874"N	103°43'19.020"W	0.00	
11900.00†	90.000	179.782	9600.00	2422.96	-2422.94	9.20	729398.80	620235.49	32°42'12.884"N	103°43'19.023"W	0.00	
12000.00†	90.000	179.782	9600.00	2522.96	-2522.94	9.58	729399.18	620135.49	32°42'11.895"N	103°43'19.025"W	0.00	
12100.00†	90.000	179.782	9600.00	2622.96	-2622.94	9.96	729399.56	620035.50	32°42'10.905"N	103°43'19.027"W	0.00	
12200.00†	90.000	179.782	9600.00	2722.96	-2722.94	10.34	729399.94	619935.50	32°42'09.916"N	103°43'19.030"W	0.00	
12300.00†	90.000	179.782	9600.00	2822.96	-2822.94	10.72	729400.32	619835.51	32°42'08.927"N	103°43'19.032"W	0.00	
12400.00†	90.000	179.782	9600.00	2922.96	-2922.94	11.10	729400.70	619735.52	32°42'07.937"N	103°43'19.034"W	0.00	
12500.00†	90.000	179.782	9600.00	3022.96	-3022.94	11.48	729401.08	619635.52	32°42'06.948"N	103°43'19.037"W	0.00	
12600.00†	90.000	179.782	9600.00	3122.96	-3122.94	11.86	729401.46	619535.53	32°42'05.958"N	103°43'19.039"W	0.00	
12700.00†	90.000	179.782	9600.00	3222.96	-3222.93	12.24	729401.84	619435.53	32°42'04.969"N	103°43'19.041"W	0.00	
12800.00†	90.000	179.782	9600.00	3322.96	-3322.93	12.62	729402.22	619335.54	32°42'03.979"N	103°43'19.043"W	0.00	
12900.00†	90.000	179.782	9600.00	3422.96	-3422.93	13.00	729402.60	619235.55	32°42'02.990"N	103°43'19.046"W	0.00	
13000.00†	90.000	179.782	9600.00	3522.96	-3522.93	13.38	729402.98	619135.55	32°42'02.000"N	103°43'19.048"W	0.00	
13100.00†	90.000	179.782	9600.00	3622.96	-3622.93	13.76	729403.36	619035.56	32°42'01.011"N	103°43'19.050"W	0.00	
13200.00†	90.000	179.782	9600.00	3722.96	-3722.93	14.14	729403.74	618935.56	32°42'00.022"N	103°43'19.053"W	0.00	



Planned Wellpath Report

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**BAKER
HUGHES**

Operator	Cimarex Energy Co.	Slot	No. 2H SHL
Area	Lea County, NM	Well	No. 2H
Field	(Querecho) Sec 36, T18S, R32E	Wellbore	No. 2H PWB
Facility	Querecho 36 State No. 2H		

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

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [svy ft]	Grid North [svy ft]	Latitude	Longitude	DLS [°/100ft]	Comments
13300.00†	90.000	179.782	9600.00	3822.96	-3822.93	14.52	729404.12	618835.57	32°41'59.032"N	103°43'19.055"W	0.00	
13400.00†	90.000	179.782	9600.00	3922.96	-3922.93	14.90	729404.50	618735.58	32°41'58.043"N	103°43'19.057"W	0.00	
13500.00†	90.000	179.782	9600.00	4022.96	-4022.93	15.28	729404.88	618635.58	32°41'57.053"N	103°43'19.060"W	0.00	
13600.00†	90.000	179.782	9600.00	4122.96	-4122.93	15.66	729405.26	618535.59	32°41'56.064"N	103°43'19.062"W	0.00	
13700.00†	90.000	179.782	9600.00	4222.96	-4222.93	16.04	729405.64	618435.59	32°41'55.074"N	103°43'19.064"W	0.00	
13800.00†	90.000	179.782	9600.00	4322.96	-4322.93	16.42	729406.02	618335.60	32°41'54.085"N	103°43'19.066"W	0.00	
13900.00†	90.000	179.782	9600.00	4422.96	-4422.93	16.80	729406.40	618235.61	32°41'53.096"N	103°43'19.069"W	0.00	
14000.00†	90.000	179.782	9600.00	4522.96	-4522.93	17.18	729406.78	618135.61	32°41'52.106"N	103°43'19.071"W	0.00	
14097.85	90.000	179.782	9600.00	4620.81	-4620.77	17.55	729407.15	618037.77	32°41'51.138"N	103°43'19.073"W	0.00	No. 2H PBHL

HOLE & CASING SECTIONS Ref Wellbore: No. 2H 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]
17.5m 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
12.25m 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	14097.85	9497.85	4600.00	NA	0.00	0.00	NA	NA
5.5in Casing	4600.00	14097.85	9497.85	4600.00	NA	0.00	0.00	NA	NA

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [svy ft]	Grid North [svy ft]	Latitude	Longitude	Shape
1) No. 2H PBHL	14097.85	9600.00	-4620.77	17.55	729407.15	618037.77	32°41'51.138"N	103°43'19.073"W	point

SURVEY PROGRAM Ref Wellbore: No. 2H PWB Ref Wellpath: Prelim_1

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	14097.85	NaviTrak (Standard)		No. 2H PWB