

DISTRICT I
1828 N. Francis Dr., Hobbs, NM 88240

DISTRICT II
1801 W. Grand Avenue, Aztec, NM 88810

DISTRICT III
1000 Rio Bravo Rd., Aztec, NM 87410

DISTRICT IV
1828 N. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 10, 2009

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 30-025-40342	Pool Code 5535-96660	Pool Name Berry Bone Spring, North South
Property Code 38947	Property Name BERRY "16" STATE	Well Number 1H
GRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3728'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	16	21 S	34 E		330	SOUTH	2095	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
B	16	21 S	34 E		330	NORTH	1980	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160			

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

PROPOSED BOTTOM HOLE LOCATION Lot - N 32°29'08.98" Long - W 103°28'21.98" NMSPC- N 541343.60 E 806690.79 (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 <u>Terri Stathem</u> Date <u>11-16-11</u> Printed Name <u>Terri Stathem</u>
		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 <u>11-16-11</u> Signature of <u>Terri Stathem</u> of Professional Surveyor <u>7977</u> Certificate No. <u>Gary L. Jones</u> 7977 DASH SURVEYS



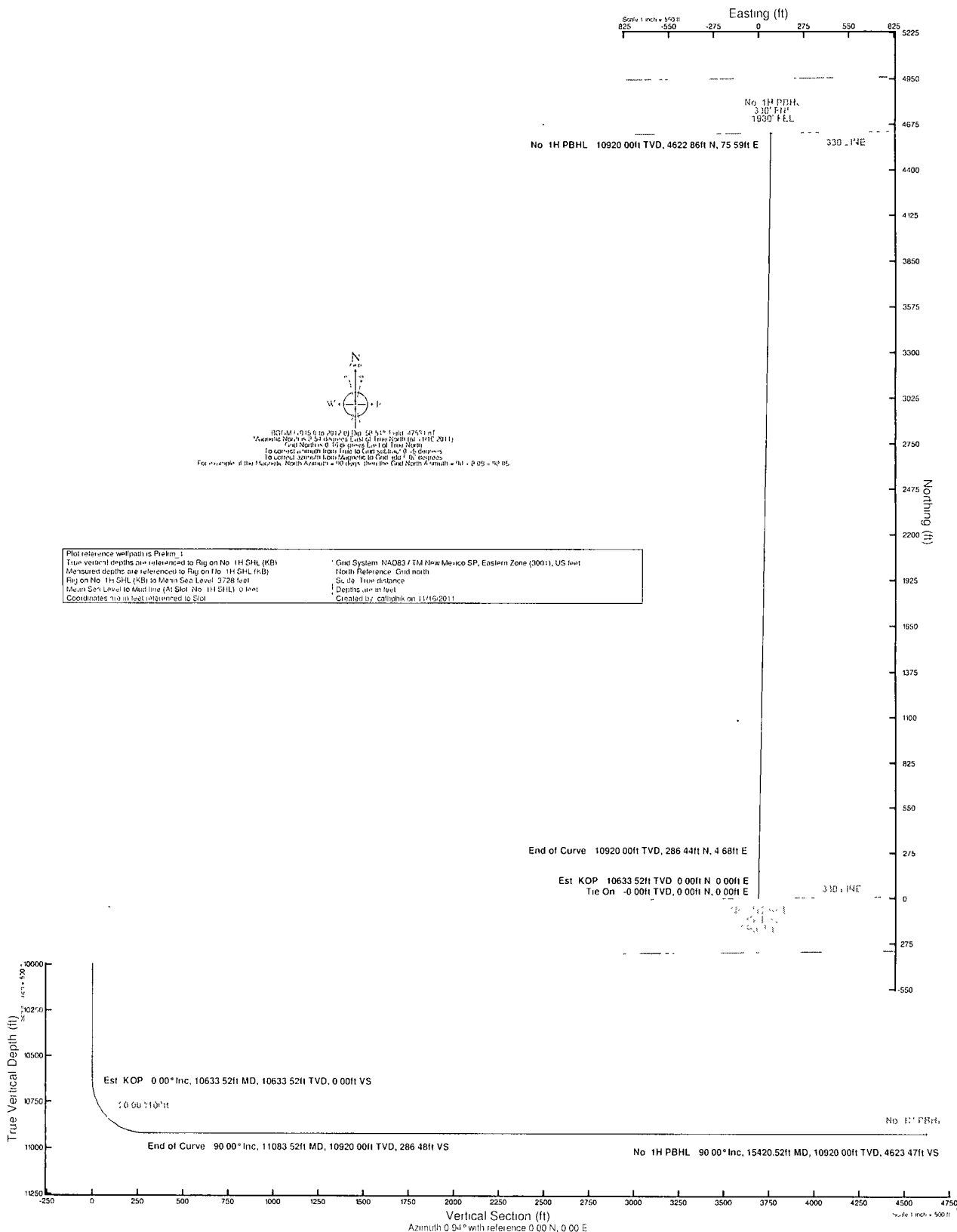
Cimarex Energy Co.

Location Lee County, TX
Field (Berry) Sec 16, T21S, R34E
Facility Berry 16 State

Slot No. 1H SHL
Well: No. 1H
Wellbore No. 1H PWB



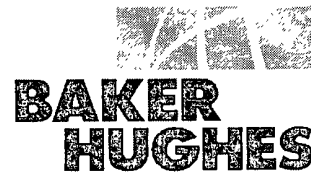
Well Profile Data								
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (%100ft)	VS (ft)
Tie On	0 00	0 000	0 937	0.00	0 00	0.00	0.00	0 00
Est. KOP	10633 52	0 000	0 937	10633 52	0.00	0.00	0 00	0 00
End of Curve	11083 52	90 000	0.937	10920 00	286 44	4.68	20 00	286.48
No. 1H PBHL	15420 52	90 000	0 937	10920 00	4622 86	75 59	0.00	4623 47





Planned Wellpath Report

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Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lee County, TX	Well	No. 1H
Field	(Berry) Sec 16, T21S, R34E	Wellbore	No. 1H PWB
Facility	Berry 16 State		

Projection System	NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect@ 3.0.0
North Reference	Grid	User	Calhphik
Scale	0.99999	Report Generated	11/16/2011 at 9:30:05 AM
Convergence at slot	0.46° East	Database/Source file	WA_Midland/No. 1H_PWB.xml

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	536590.41	806419.39	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W
Facility Reference Pt			0.00	0.00	30°59'18.404"N	106°03'38.987"W
Field Reference Pt			0.00	0.00	30°59'18.404"N	106°03'38.987"W

Calculation method	Minimum curvature	Rig on No. 1H SHL (KB) to GL	3728.00ft
Horizontal Reference Pt	Slot	Rig on No. 1H SHL (KB) to Mean Sea Level	3728.00ft
Vertical Reference Pt	Rig on No. 1H SHL (KB)	Rig on No. 1H SHL (KB) to Mud Line at Slot (No. 1H SHL)	3728.00ft
MD Reference Pt	Rig on No. 1H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	0.94°



Planned Wellpath Report

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Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lee County, TX	Well	No. 1H
Field	(Berry) Sec 16, T21S, R34E	Wellbore	No. 1H PWB
Facility	Berry 16 State		

WELLPATH DATA (162 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00	0.000	0.937	0.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	Tie On
100.00	0.000	0.937	100.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
200.00	0.000	0.937	200.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
300.00	0.000	0.937	300.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
400.00	0.000	0.937	400.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
500.00	0.000	0.937	500.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
600.00	0.000	0.937	600.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
700.00	0.000	0.937	700.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
800.00	0.000	0.937	800.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
900.00	0.000	0.937	900.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
1000.00	0.000	0.937	1000.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
1100.00	0.000	0.937	1100.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
1200.00	0.000	0.937	1200.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
1300.00	0.000	0.937	1300.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
1400.00	0.000	0.937	1400.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
1500.00	0.000	0.937	1500.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
1600.00	0.000	0.937	1600.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
1700.00	0.000	0.937	1700.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
1800.00	0.000	0.937	1800.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
1900.00	0.000	0.937	1900.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
2000.00	0.000	0.937	2000.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
2100.00	0.000	0.937	2100.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
2200.00	0.000	0.937	2200.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
2300.00	0.000	0.937	2300.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
2400.00	0.000	0.937	2400.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
2500.00	0.000	0.937	2500.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
2600.00	0.000	0.937	2600.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
2700.00	0.000	0.937	2700.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
2800.00	0.000	0.937	2800.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
2900.00	0.000	0.937	2900.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
3000.00	0.000	0.937	3000.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
3100.00	0.000	0.937	3100.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
3200.00	0.000	0.937	3200.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
3300.00	0.000	0.937	3300.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
3400.00	0.000	0.937	3400.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
3500.00	0.000	0.937	3500.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
3600.00	0.000	0.937	3600.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
3700.00	0.000	0.937	3700.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
3800.00	0.000	0.937	3800.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
3900.00	0.000	0.937	3900.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
4000.00	0.000	0.937	4000.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
4100.00	0.000	0.937	4100.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
4200.00	0.000	0.937	4200.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
4300.00	0.000	0.937	4300.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
4400.00	0.000	0.937	4400.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	



Planned Wellpath Report

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REFERENCE INFORMATION

Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lee County, TX	Well	No. 1H
Field	(Berry) Sec 16, T21S, R34E	Wellbore	No. 1H PWB
Facility	Berry 16 State		

WELLPATH DATA (162 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	FVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [1"/100ft]	Comments
4500.00	0.000	0.937	4500.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
4600.00	0.000	0.937	4600.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
4700.00	0.000	0.937	4700.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
4800.00	0.000	0.937	4800.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
4900.00	0.000	0.937	4900.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
5000.00	0.000	0.937	5000.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
5100.00	0.000	0.937	5100.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
5200.00	0.000	0.937	5200.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
5300.00	0.000	0.937	5300.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
5400.00	0.000	0.937	5400.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
5500.00	0.000	0.937	5500.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
5600.00	0.000	0.937	5600.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
5700.00	0.000	0.937	5700.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
5780.00	0.000	0.937	5780.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	Delaware Sands
5800.00	0.000	0.937	5800.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
5900.00	0.000	0.937	5900.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
6000.00	0.000	0.937	6000.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
6100.00	0.000	0.937	6100.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
6200.00	0.000	0.937	6200.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
6300.00	0.000	0.937	6300.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
6400.00	0.000	0.937	6400.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
6500.00	0.000	0.937	6500.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
6600.00	0.000	0.937	6600.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
6700.00	0.000	0.937	6700.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
6800.00	0.000	0.937	6800.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
6900.00	0.000	0.937	6900.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
7000.00	0.000	0.937	7000.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
7100.00	0.000	0.937	7100.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
7200.00	0.000	0.937	7200.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
7300.00	0.000	0.937	7300.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
7400.00	0.000	0.937	7400.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
7500.00	0.000	0.937	7500.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
7600.00	0.000	0.937	7600.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
7700.00	0.000	0.937	7700.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
7800.00	0.000	0.937	7800.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
7900.00	0.000	0.937	7900.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
8000.00	0.000	0.937	8000.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
8100.00	0.000	0.937	8100.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
8200.00	0.000	0.937	8200.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
8300.00	0.000	0.937	8300.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
8400.00	0.000	0.937	8400.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
8500.00	0.000	0.937	8500.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
8600.00	0.000	0.937	8600.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
8700.00	0.000	0.937	8700.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	Bone Spring
8800.00	0.000	0.937	8800.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	



Planned Wellpath Report

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Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lee County, TX	Well	No. 1H
Field	(Berry) Sec 16, T21S, R34E	Wellbore	No. 1H PWB
Facility	Berry 16 State		

WELLPATH DATA (162 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8900.00	0.000	0.937	8900.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
9000.00	0.000	0.937	9000.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
9100.00	0.000	0.937	9100.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
9200.00	0.000	0.937	9200.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
9225.00	0.000	0.937	9225.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	Avalon Shale
9300.00	0.000	0.937	9300.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
9400.00	0.000	0.937	9400.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
9500.00	0.000	0.937	9500.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
9600.00	0.000	0.937	9600.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
9700.00	0.000	0.937	9700.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
9800.00	0.000	0.937	9800.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
9900.00	0.000	0.937	9900.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
9960.00	0.000	0.937	9960.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	1st Bone Spring Shale
10000.00	0.000	0.937	10000.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
10100.00	0.000	0.937	10100.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
10200.00	0.000	0.937	10200.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
10300.00	0.000	0.937	10300.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
10400.00	0.000	0.937	10400.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
10500.00	0.000	0.937	10500.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
10570.00	0.000	0.937	10570.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	2nd Bone Spring Shale
10600.00	0.000	0.937	10600.00	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	
10633.52	0.000	0.937	10633.52	0.00	0.00	0.00	806615.20	536720.70	32°28'21.249"N	103°28'23.298"W	0.00	1st KOP
10700.00	13.296	0.937	10699.40	7.68	7.68	0.13	806615.33	536728.38	32°28'21.325"N	103°28'23.296"W	20.00	
10800.00	33.296	0.937	10790.79	47.03	47.02	0.77	806615.97	536767.72	32°28'21.714"N	103°28'23.285"W	20.00	
10900.00	53.296	0.937	10863.20	115.25	115.24	1.88	806617.08	536835.94	32°28'22.389"N	103°28'23.266"W	20.00	
11000.00	73.296	0.937	10907.91	204.14	204.11	3.34	806618.54	536924.81	32°28'23.268"N	103°28'23.240"W	20.00	
11083.52	90.000	0.937	10920.00	286.48	286.44	4.68	806619.88	537007.14	32°28'24.083"N	103°28'23.217"W	20.00	End of Curve
11100.00	90.000	0.937	10920.00	302.96	302.92	4.95	806620.15	537023.61	32°28'24.246"N	103°28'23.212"W	0.00	
11200.00	90.000	0.937	10920.00	402.96	402.90	6.59	806621.79	537123.60	32°28'25.235"N	103°28'23.184"W	0.00	
11300.00	90.000	0.937	10920.00	502.96	502.89	8.22	806623.42	537223.58	32°28'26.224"N	103°28'23.155"W	0.00	
11400.00	90.000	0.937	10920.00	602.96	602.88	9.86	806625.06	537323.57	32°28'27.213"N	103°28'23.127"W	0.00	
11500.00	90.000	0.937	10920.00	702.96	702.86	11.49	806626.69	537423.56	32°28'28.202"N	103°28'23.098"W	0.00	
11600.00	90.000	0.937	10920.00	802.96	802.85	13.13	806628.33	537523.54	32°28'29.191"N	103°28'23.070"W	0.00	
11700.00	90.000	0.937	10920.00	902.96	902.84	14.76	806629.96	537623.53	32°28'30.181"N	103°28'23.041"W	0.00	
11800.00	90.000	0.937	10920.00	1002.96	1002.82	16.40	806631.60	537723.51	32°28'31.170"N	103°28'23.013"W	0.00	
11900.00	90.000	0.937	10920.00	1102.96	1102.81	18.03	806633.23	537823.50	32°28'32.159"N	103°28'22.984"W	0.00	
12000.00	90.000	0.937	10920.00	1202.96	1202.80	19.67	806634.87	537923.48	32°28'33.148"N	103°28'22.956"W	0.00	
12100.00	90.000	0.937	10920.00	1302.96	1302.78	21.30	806636.50	538023.47	32°28'34.137"N	103°28'22.927"W	0.00	
12200.00	90.000	0.937	10920.00	1402.96	1402.77	22.94	806638.14	538123.45	32°28'35.127"N	103°28'22.899"W	0.00	
12300.00	90.000	0.937	10920.00	1502.96	1502.76	24.57	806639.77	538223.44	32°28'36.116"N	103°28'22.870"W	0.00	
12400.00	90.000	0.937	10920.00	1602.96	1602.74	26.21	806641.41	538323.42	32°28'37.105"N	103°28'22.842"W	0.00	
12500.00	90.000	0.937	10920.00	1702.96	1702.73	27.84	806643.04	538423.41	32°28'38.094"N	103°28'22.813"W	0.00	
12600.00	90.000	0.937	10920.00	1802.96	1802.72	29.48	806644.68	538523.39	32°28'39.083"N	103°28'22.785"W	0.00	
12700.00	90.000	0.937	10920.00	1902.96	1902.70	31.11	806646.31	538623.38	32°28'40.072"N	103°28'22.756"W	0.00	
12800.00	90.000	0.937	10920.00	2002.96	2002.69	32.75	806647.95	538723.37	32°28'41.062"N	103°28'22.728"W	0.00	



Planned Wellpath Report

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Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lee County, TX	Well	No. 1H
Field	(Berry) Sec 16, T21S, R34E	Wellbore	No. 1H PWB
Facility	Berry 16 State		

WELLPATH DATA (162 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
12900.00	90.000	0.937	10920.00	2102.96	2102.68	34.38	806649.58	538823.35	32°28'42.051"N	103°28'22.699"W	0.00	
13000.00	90.000	0.937	10920.00	2202.96	2202.66	36.02	806651.22	538923.34	32°28'43.040"N	103°28'22.671"W	0.00	
13100.00	90.000	0.937	10920.00	2302.96	2302.65	37.65	806652.85	539023.32	32°28'44.029"N	103°28'22.642"W	0.00	
13200.00	90.000	0.937	10920.00	2402.96	2402.64	39.29	806654.49	539123.31	32°28'45.018"N	103°28'22.614"W	0.00	
13300.00	90.000	0.937	10920.00	2502.96	2502.62	40.92	806656.12	539223.29	32°28'46.008"N	103°28'22.585"W	0.00	
13400.00	90.000	0.937	10920.00	2602.96	2602.61	42.56	806657.76	539323.28	32°28'46.997"N	103°28'22.557"W	0.00	
13500.00	90.000	0.937	10920.00	2702.96	2702.60	44.19	806659.39	539423.26	32°28'47.986"N	103°28'22.528"W	0.00	
13600.00	90.000	0.937	10920.00	2802.96	2802.58	45.83	806661.03	539523.25	32°28'48.975"N	103°28'22.500"W	0.00	
13700.00	90.000	0.937	10920.00	2902.96	2902.57	47.46	806662.66	539623.23	32°28'49.964"N	103°28'22.471"W	0.00	
13800.00	90.000	0.937	10920.00	3002.96	3002.56	49.10	806664.30	539723.22	32°28'50.953"N	103°28'22.443"W	0.00	
13900.00	90.000	0.937	10920.00	3102.96	3102.54	50.73	806665.93	539823.20	32°28'51.943"N	103°28'22.414"W	0.00	
14000.00	90.000	0.937	10920.00	3202.96	3202.53	52.37	806667.57	539923.19	32°28'52.932"N	103°28'22.386"W	0.00	
14100.00	90.000	0.937	10920.00	3302.96	3302.52	54.00	806669.20	540023.18	32°28'53.921"N	103°28'22.357"W	0.00	
14200.00	90.000	0.937	10920.00	3402.96	3402.50	55.64	806670.84	540123.16	32°28'54.910"N	103°28'22.329"W	0.00	
14300.00	90.000	0.937	10920.00	3502.96	3502.49	57.27	806672.47	540223.15	32°28'55.899"N	103°28'22.300"W	0.00	
14400.00	90.000	0.937	10920.00	3602.96	3602.48	58.91	806674.11	540323.13	32°28'56.889"N	103°28'22.272"W	0.00	
14500.00	90.000	0.937	10920.00	3702.96	3702.46	60.54	806675.74	540423.12	32°28'57.878"N	103°28'22.243"W	0.00	
14600.00	90.000	0.937	10920.00	3802.96	3802.45	62.18	806677.38	540523.10	32°28'58.867"N	103°28'22.215"W	0.00	
14700.00	90.000	0.937	10920.00	3902.96	3902.44	63.81	806679.01	540623.09	32°28'59.856"N	103°28'22.186"W	0.00	
14800.00	90.000	0.937	10920.00	4002.96	4002.42	65.45	806680.65	540723.07	32°29'00.845"N	103°28'22.158"W	0.00	
14900.00	90.000	0.937	10920.00	4102.96	4102.41	67.08	806682.28	540823.06	32°29'01.834"N	103°28'22.129"W	0.00	
15000.00	90.000	0.937	10920.00	4202.96	4202.40	68.72	806683.91	540923.04	32°29'02.824"N	103°28'22.101"W	0.00	
15100.00	90.000	0.937	10920.00	4302.96	4302.38	70.35	806685.55	541023.03	32°29'03.813"N	103°28'22.072"W	0.00	
15200.00	90.000	0.937	10920.00	4402.96	4402.37	71.99	806687.18	541123.02	32°29'04.802"N	103°28'22.044"W	0.00	
15300.00	90.000	0.937	10920.00	4502.96	4502.36	73.62	806688.82	541223.00	32°29'05.791"N	103°28'22.015"W	0.00	
15400.00	90.000	0.937	10920.00	4602.96	4602.34	75.26	806690.45	541322.99	32°29'06.780"N	103°28'21.987"W	0.00	
15420.52	90.000	0.937	10920.00	4623.47	4622.86	75.59	806690.79	541343.50	32°29'06.983"N	103°28'21.981"W	0.00	No. 1H PBHL

HOLE & CASING SECTIONS - Ref Wellbore: No. 1H 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]
12in Open Hole	0.00	5700.00	5700.00	0.00	5700.00	0.00	0.00	0.00	0.00
9 625in Casing	0.00	5700.00	5700.00	0.00	5700.00	0.00	0.00	0.00	0.00
7in Open Hole	5700.00	15420.52	9720.52	5700.00	NA	0.00	0.00	NA	NA
5.5in Casing	0.00	15420.52	15420.52	0.00	NA	0.00	0.00	NA	NA



Planned Wellpath Report

Prelim_1

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lee County, TX	Well	No. 1H
Field	(Berry) Sec 16, T21S, R34E	Wellbore	No. 1H PWB
Facility	Berry 16 State		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No. 1H PBHL	15420.52	10920.00	4622.86	75.59	806690.79	541343.50	32°29'06.983"N	103°28'21.981"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
3728.00	15420.52	NaviTrak (Standard)		No. 1H PWB

R & A

2"

Fill Line

9-5/8"

Flowline

The diagram shows a cross-section of a wellbore. On the left, a vertical line represents the wellbore wall. A horizontal line extends from the wall, labeled '2"' and 'Fill Line'. This line is divided into three segments. A small valve symbol is located on the middle segment. To the right of the fill line, a horizontal line extends further, labeled '9-5/8"' and 'Flowline'. This line is also divided into three segments. A small valve symbol is located on the middle segment. The entire diagram is enclosed in a rectangular frame.

5000# BOP
Berry '16' State No. 1H
 Cimarex Energy Co. of Colorado
 16-21S-34E
 SHL 330 FSL & 2095 FEL
 BHL 330 FNL & 1980 FEL

5000# BOP
Berry '16' State No. 1H
Cimarex Energy Co. of Colorado
16-21S-34E
SHL 330 FSL & 2095 FEL
BHL 330 FNL & 1980 FEL
Lea County, NM

Drilling Operations
Choke Manifold
5M Service

Choke Manifold Diagram
Berry '16' State No. 1H
Cimarex Energy Co. of Colorado
16-21S-34E
SHL 330 FSL & 2095 FEL
BHL 330 FNL & 1980 FEL
Lea County, NM

