

HOBBS OCD

DISTRICT I

1825 N. French Dr., Hobbs, NM 88210

DISTRICT II

1301 W. Grand Avenue, Artesia, NM 87410

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

JUL 07 2011

State of New Mexico
Energy, Minerals and Natural Resources DepartmentForm C-102
Revised October 15, 2009Submit 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 30-025-40184	Pool Code 53805	Pool Name Sand Dunes; Bone Spring, South
Property Code 38694	Property Name TRISTE DRAW "36" STATE	Well Number 1H
OGRID No. 215099	Operator Name Cimarex Energy Co.	Elevation 3689'

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	23 S	32 E		330	NORTH	375	WEST	LEA

Bottom Hole Location If Different From Surface

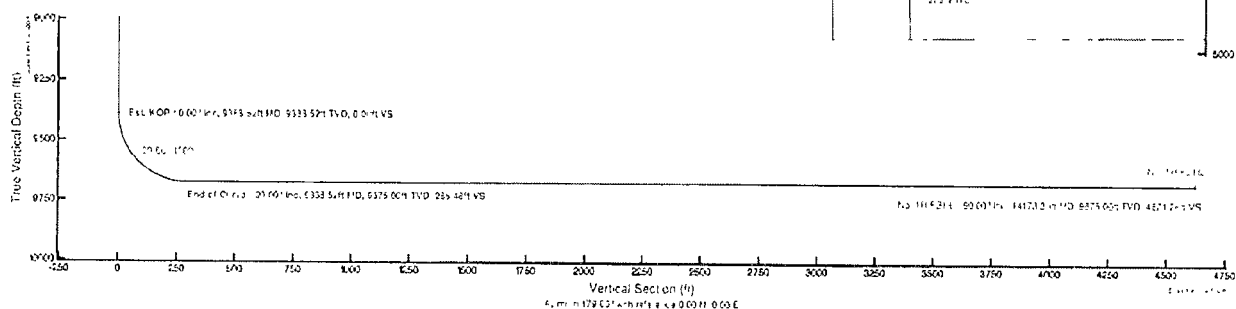
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	36	23 S	32 E		330	SOUTH	375	WEST	LEA

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

SURFACE LOCATION Lat - N 32°16'03.21" Long - W 103°38'08.30" NMSPCE - N 461771.9 E 756986.4 (NAD-83) EOC/Beg of Prod Interval 617 FNL & 377 FWL PROPOSED BOTTOM HOLE LOCATION Lat - N 32°15'17.48" Long - W 103°38'08.27" NMSPCE - N 457150.94 E 757018.86 (NAD-83) VD-8303-0000 375' SL 330' 46220' 375' BH 330'	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Natalie Krueger</i> 7/6/2011 Signature Date Natalie Krueger Printed Name 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. JUNE 2011 GARY L. JONES NEW MEXICO Professional Surveyor 7977 W.O. No. 7977 Certificate No. Gary L. Jones 7977 BASIN SURVEYS
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JUL 07 2011





Planned Wellpath Report

Prelim_1

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REFERENCE WELL PATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lee County, TX	Well	No. 1H
Field	(Triste Draw) Sec 36, T23S, R32E	Wellbore	No. 1H PWB
Facility	Triste Draw 36 State No. 1H		

REPORT SETUP INFORMATION			
Projection System	NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Calhphik
Scale	0.999962	Report Generated	6/28/2011 at 4:41:33 PM
Convergence at slot	0.37° 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	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W
Facility Reference Pt			756986.40	461771.90	32°16'03.211"N	103°38'08.299"W
Field Reference Pt			756986.40	461771.90	32°16'03.211"N	103°38'08.299"W

WELL PATH DATA			
Calculation method	Minimum curvature	Rig on No. 1H SHL (RKB) to GL	3689.00ft
Horizontal Reference Pt	Slot	Rig on No. 1H SHL (RKB) to Mean Sea Level	3689.00ft
Vertical Reference Pt	Rig on No. 1H SHL (RKB)	Rig on No. 1H SHL (RKB) to Mud Line at Slot (No. 1H SHL)	3689.00ft
MD Reference Pt	Rig on No. 1H SHL (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	179.60°



Planned Wellpath Report

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**BAKER
HUGHES**

REFERENCE WELL PATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lee County, TX	Well	No. 1H
Field	(Triste Draw) Sec 36, T23S, R32E	Wellbore	No. 1H PWB
Facility	Triste Draw 36 State No. 1H		

WELLPATH DATA (147 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	179.598	0.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	Tie On
100.00†	0.000	179.598	100.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
200.00†	0.000	179.598	200.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
300.00†	0.000	179.598	300.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
400.00†	0.000	179.598	400.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
500.00†	0.000	179.598	500.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
600.00†	0.000	179.598	600.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
700.00†	0.000	179.598	700.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
800.00†	0.000	179.598	800.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
900.00†	0.000	179.598	900.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
1000.00†	0.000	179.598	1000.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
1100.00†	0.000	179.598	1100.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
1200.00†	0.000	179.598	1200.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
1300.00†	0.000	179.598	1300.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
1400.00†	0.000	179.598	1400.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
1500.00†	0.000	179.598	1500.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
1600.00†	0.000	179.598	1600.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
1700.00†	0.000	179.598	1700.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
1800.00†	0.000	179.598	1800.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
1900.00†	0.000	179.598	1900.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
2000.00†	0.000	179.598	2000.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
2100.00†	0.000	179.598	2100.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
2200.00†	0.000	179.598	2200.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
2300.00†	0.000	179.598	2300.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
2400.00†	0.000	179.598	2400.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
2500.00†	0.000	179.598	2500.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
2600.00†	0.000	179.598	2600.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
2700.00†	0.000	179.598	2700.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
2800.00†	0.000	179.598	2800.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
2900.00†	0.000	179.598	2900.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
3000.00†	0.000	179.598	3000.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
3100.00†	0.000	179.598	3100.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
3200.00†	0.000	179.598	3200.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
3300.00†	0.000	179.598	3300.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
3400.00†	0.000	179.598	3400.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
3500.00†	0.000	179.598	3500.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
3600.00†	0.000	179.598	3600.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
3700.00†	0.000	179.598	3700.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
3800.00†	0.000	179.598	3800.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
3900.00†	0.000	179.598	3900.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
4000.00†	0.000	179.598	4000.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
4100.00†	0.000	179.598	4100.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
4200.00†	0.000	179.598	4200.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
4300.00†	0.000	179.598	4300.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
4400.00†	0.000	179.598	4400.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	



Planned Wellpath Report

Prelim_1

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**BAKER
HUGHES**

REFERENCE WELL PATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lee County, TX	Well	No. 1H
Field	(Triste Draw) Sec 36, T23S, R32E	Wellbore	No. 1H PWB
Facility	Triste Draw 36 State No. 1H		

WELLPATH DATA (147 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
4500.00†	0.000	179.598	4500.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
4600.00†	0.000	179.598	4600.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
4700.00†	0.000	179.598	4700.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
4800.00†	0.000	179.598	4800.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
4900.00†	0.000	179.598	4900.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
5000.00†	0.000	179.598	5000.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
5100.00†	0.000	179.598	5100.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
5200.00†	0.000	179.598	5200.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
5300.00†	0.000	179.598	5300.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
5400.00†	0.000	179.598	5400.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
5500.00†	0.000	179.598	5500.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
5600.00†	0.000	179.598	5600.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
5700.00†	0.000	179.598	5700.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
5800.00†	0.000	179.598	5800.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
5900.00†	0.000	179.598	5900.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
6000.00†	0.000	179.598	6000.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
6100.00†	0.000	179.598	6100.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
6200.00†	0.000	179.598	6200.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
6300.00†	0.000	179.598	6300.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
6400.00†	0.000	179.598	6400.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
6500.00†	0.000	179.598	6500.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
6600.00†	0.000	179.598	6600.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
6700.00†	0.000	179.598	6700.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
6800.00†	0.000	179.598	6800.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
6900.00†	0.000	179.598	6900.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
7000.00†	0.000	179.598	7000.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
7100.00†	0.000	179.598	7100.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
7200.00†	0.000	179.598	7200.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
7300.00†	0.000	179.598	7300.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
7400.00†	0.000	179.598	7400.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
7500.00†	0.000	179.598	7500.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
7600.00†	0.000	179.598	7600.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
7700.00†	0.000	179.598	7700.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
7800.00†	0.000	179.598	7800.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
7900.00†	0.000	179.598	7900.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
8000.00†	0.000	179.598	8000.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
8100.00†	0.000	179.598	8100.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
8200.00†	0.000	179.598	8200.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
8300.00†	0.000	179.598	8300.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
8400.00†	0.000	179.598	8400.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
8500.00†	0.000	179.598	8500.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
8575.00†	0.000	179.598	8575.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	Basal Brushy Canyon
8600.00†	0.000	179.598	8600.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
8700.00†	0.000	179.598	8700.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
8800.00†	0.000	179.598	8800.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	Bone Spring



Planned Wellpath Report

Prelim_1
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**BAKER
HUGHES**

REFERENCE WELL INFORMATION			
Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lee County, TX	Well	No. 1H
Field	(Triste Draw) Sec 36, T23S, R32E	Wellbore	No. 1H PWB
Facility	Triste Draw 36 State No. 1H		

WELLPATH DATA (147 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	179.598	8900.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
9000.00†	0.000	179.598	9000.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
9100.00†	0.000	179.598	9100.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
9200.00†	0.000	179.598	9200.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
9250.00†	0.000	179.598	9250.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	Upper Bone Spring Shale
9300.00†	0.000	179.598	9300.00	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	
9388.52	0.000	179.598	9388.52	0.00	0.00	0.00	756986.40	461771.90	32°16'03.211"N	103°38'08.299"W	0.00	Est KOP
9400.00†	2.296	179.598	9400.00	0.23	-0.23	0.00	756986.40	461771.67	32°16'03.209"N	103°38'08.299"W	20.00	
9500.00†	22.296	179.598	9497.21	21.42	-21.42	0.15	756986.55	461750.48	32°16'02.999"N	103°38'08.299"W	20.00	
9600.00†	42.296	179.598	9581.31	74.58	-74.57	0.52	756986.92	461697.33	32°16'02.473"N	103°38'08.299"W	20.00	
9700.00†	62.296	179.598	9642.16	153.29	-153.29	1.08	756987.48	461618.62	32°16'01.695"N	103°38'08.298"W	20.00	
9800.00†	82.296	179.598	9672.41	248.07	-248.07	1.74	756988.14	461523.84	32°16'00.757"N	103°38'08.298"W	20.00	
9838.52	90.000	179.598	9675.00	286.48	-286.47	2.01	756988.41	461485.44	32°16'00.377"N	103°38'08.298"W	20.00	End of Curve
9900.00†	90.000	179.598	9675.00	347.96	-347.95	2.44	756988.84	461423.96	32°15'59.768"N	103°38'08.297"W	0.00	
10000.00†	90.000	179.598	9675.00	447.96	-447.95	3.15	756989.55	461323.97	32°15'58.779"N	103°38'08.297"W	0.00	
10100.00†	90.000	179.598	9675.00	547.96	-547.94	3.85	756990.25	461223.98	32°15'57.789"N	103°38'08.296"W	0.00	
10200.00†	90.000	179.598	9675.00	647.96	-647.94	4.55	756990.95	461123.98	32°15'56.800"N	103°38'08.295"W	0.00	
10300.00†	90.000	179.598	9675.00	747.96	-747.94	5.25	756991.65	461023.99	32°15'55.810"N	103°38'08.295"W	0.00	
10400.00†	90.000	179.598	9675.00	847.96	-847.94	5.96	756992.36	460924.00	32°15'54.821"N	103°38'08.294"W	0.00	
10500.00†	90.000	179.598	9675.00	947.96	-947.93	6.66	756993.06	460824.00	32°15'53.831"N	103°38'08.294"W	0.00	
10600.00†	90.000	179.598	9675.00	1047.96	-1047.93	7.36	756993.76	460724.01	32°15'52.842"N	103°38'08.293"W	0.00	
10700.00†	90.000	179.598	9675.00	1147.96	-1147.93	8.06	756994.46	460624.02	32°15'51.852"N	103°38'08.292"W	0.00	
10800.00†	90.000	179.598	9675.00	1247.96	-1247.93	8.77	756995.17	460524.02	32°15'50.863"N	103°38'08.292"W	0.00	
10900.00†	90.000	179.598	9675.00	1347.96	-1347.92	9.47	756995.87	460424.03	32°15'49.873"N	103°38'08.291"W	0.00	
11000.00†	90.000	179.598	9675.00	1447.96	-1447.92	10.17	756996.57	460324.04	32°15'48.884"N	103°38'08.291"W	0.00	
11100.00†	90.000	179.598	9675.00	1547.96	-1547.92	10.87	756997.27	460224.04	32°15'47.894"N	103°38'08.290"W	0.00	
11200.00†	90.000	179.598	9675.00	1647.96	-1647.92	11.58	756997.98	460124.05	32°15'46.905"N	103°38'08.289"W	0.00	
11300.00†	90.000	179.598	9675.00	1747.96	-1747.91	12.28	756998.68	460024.05	32°15'45.915"N	103°38'08.289"W	0.00	
11400.00†	90.000	179.598	9675.00	1847.96	-1847.91	12.98	756999.38	459924.06	32°15'44.926"N	103°38'08.288"W	0.00	
11500.00†	90.000	179.598	9675.00	1947.96	-1947.91	13.68	757000.08	459824.07	32°15'43.936"N	103°38'08.288"W	0.00	
11600.00†	90.000	179.598	9675.00	2047.96	-2047.91	14.39	757000.78	459724.07	32°15'42.947"N	103°38'08.287"W	0.00	
11700.00†	90.000	179.598	9675.00	2147.96	-2147.90	15.09	757001.49	459624.08	32°15'41.957"N	103°38'08.286"W	0.00	
11800.00†	90.000	179.598	9675.00	2247.96	-2247.90	15.79	757002.19	459524.09	32°15'40.968"N	103°38'08.286"W	0.00	
11900.00†	90.000	179.598	9675.00	2347.96	-2347.90	16.49	757002.89	459424.09	32°15'39.978"N	103°38'08.285"W	0.00	
12000.00†	90.000	179.598	9675.00	2447.96	-2447.90	17.20	757003.59	459324.10	32°15'38.989"N	103°38'08.284"W	0.00	
12100.00†	90.000	179.598	9675.00	2547.96	-2547.89	17.90	757004.30	459224.11	32°15'37.999"N	103°38'08.284"W	0.00	
12200.00†	90.000	179.598	9675.00	2647.96	-2647.89	18.60	757005.00	459124.11	32°15'37.010"N	103°38'08.283"W	0.00	
12300.00†	90.000	179.598	9675.00	2747.96	-2747.89	19.30	757005.70	459024.12	32°15'36.020"N	103°38'08.283"W	0.00	
12400.00†	90.000	179.598	9675.00	2847.96	-2847.89	20.01	757006.40	458924.13	32°15'35.031"N	103°38'08.282"W	0.00	
12500.00†	90.000	179.598	9675.00	2947.96	-2947.89	20.71	757007.11	458824.13	32°15'34.041"N	103°38'08.281"W	0.00	
12600.00†	90.000	179.598	9675.00	3047.96	-3047.88	21.41	757007.81	458724.14	32°15'33.052"N	103°38'08.281"W	0.00	
12700.00†	90.000	179.598	9675.00	3147.96	-3147.88	22.11	757008.51	458624.14	32°15'32.062"N	103°38'08.280"W	0.00	
12800.00†	90.000	179.598	9675.00	3247.96	-3247.88	22.81	757009.21	458524.15	32°15'31.073"N	103°38'08.280"W	0.00	
12900.00†	90.000	179.598	9675.00	3347.96	-3347.88	23.52	757009.92	458424.16	32°15'30.083"N	103°38'08.279"W	0.00	
13000.00†	90.000	179.598	9675.00	3447.96	-3447.87	24.22	757010.62	458324.16	32°15'29.094"N	103°38'08.278"W	0.00	



Planned Wellpath Report

Prelim_1
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FIELD NO. 1H PWB			
Operator	Cimarex Energy Co.	Slot	No. 1H SHL
Area	Lee County, TX	Well	No. 1H
Field	(Triste Draw) Sec 36, T23S, R32E	Wellbore	No. 1H PWB
Facility	Triste Draw 36 State No. 1H		

WELLPATH DATA (147 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
13100.00†	90.000	179.598	9675.00	3547.96	-3547.87	24.92	757011.32	458224.17	32°15'28.104"N	103°38'08.278"W	0.00	
13200.00†	90.000	179.598	9675.00	3647.96	-3647.87	25.62	757012.02	458124.18	32°15'27.115"N	103°38'08.277"W	0.00	
13300.00†	90.000	179.598	9675.00	3747.96	-3747.87	26.33	757012.73	458024.18	32°15'26.125"N	103°38'08.277"W	0.00	
13400.00†	90.000	179.598	9675.00	3847.96	-3847.86	27.03	757013.43	457924.19	32°15'25.136"N	103°38'08.276"W	0.00	
13500.00†	90.000	179.598	9675.00	3947.96	-3947.86	27.73	757014.13	457824.20	32°15'24.146"N	103°38'08.275"W	0.00	
13600.00†	90.000	179.598	9675.00	4047.96	-4047.86	28.43	757014.83	457724.20	32°15'23.157"N	103°38'08.275"W	0.00	
13700.00†	90.000	179.598	9675.00	4147.96	-4147.86	29.14	757015.54	457624.21	32°15'22.167"N	103°38'08.274"W	0.00	
13800.00†	90.000	179.598	9675.00	4247.96	-4247.85	29.84	757016.24	457524.22	32°15'21.178"N	103°38'08.273"W	0.00	
13900.00†	90.000	179.598	9675.00	4347.96	-4347.85	30.54	757016.94	457424.22	32°15'20.188"N	103°38'08.273"W	0.00	
14000.00†	90.000	179.598	9675.00	4447.96	-4447.85	31.24	757017.64	457324.23	32°15'19.198"N	103°38'08.272"W	0.00	
14100.00†	90.000	179.598	9675.00	4547.96	-4547.85	31.95	757018.35	457224.23	32°15'18.209"N	103°38'08.272"W	0.00	
14173.30	90.000	179.598	9675.00†	4621.26	-4621.14	32.46	757018.86	457150.94	32°15'17.484"N	103°38'08.271"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]
12.25in Open Hole	0.00	4835.00	4835.00	0.00	4835.00	0.00	0.00	0.00	0.00
9.625in Casing	0.00	4835.00	4835.00	0.00	4835.00	0.00	0.00	0.00	0.00
8.75in Open Hole	4835.00	14173.30	9338.30	4835.00	NA	0.00	0.00	NA	NA
5.5in Casing	0.00	14173.30	14173.30	0.00	NA	0.00	0.00	NA	NA

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	14173.30	9675.00	-4621.14	32.46	757018.86	457150.94	32°15'17.484"N	103°38'08.271"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
3689.00	14173.30	NaviTrak (Standard)		No. 1H PWB