

DISTRICT I
1025 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

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

DISTRICT IV
1120 N. El Frasco Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 15, 2009

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87506

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-40343	Pool Code 96603	Pool Name Triste Draw; Bone Spring
Property Code 38694	Property Name TRISTE DRAW "36" STATE	Well Number 4
OGRID No. 215099	Operator Name CIMAREX ENERGY CO.	Elevation 3685'

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	23 S	32 E		330	NORTH	2280	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	23 S	32 E		330	SOUTH	2280	WEST	LEA

Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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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 Lot - N 32°16'03.28" Long - W 103°37'46.12" NWSPEC - N 461791.3 E 758890.6 (NAD-83) PROPOSED BOTTOM HOLE LOCATION Lot - N 32°15'17.56" Long - W 103°37'46.09" NWSPEC - N 457171.8 E 758923.4 (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 information either owns a working interest or undivided 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>[Signature]</i> 11-16-11 Signature Date Terri Stathem 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. NOVEMBER 16, 2011 Date Surveyed Signature & Seal of Professional Surveyor W.O. [Signature] Certificate No. Gary L. Jones 7877 BASIN SURVEYS
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Cimarex Energy Co.

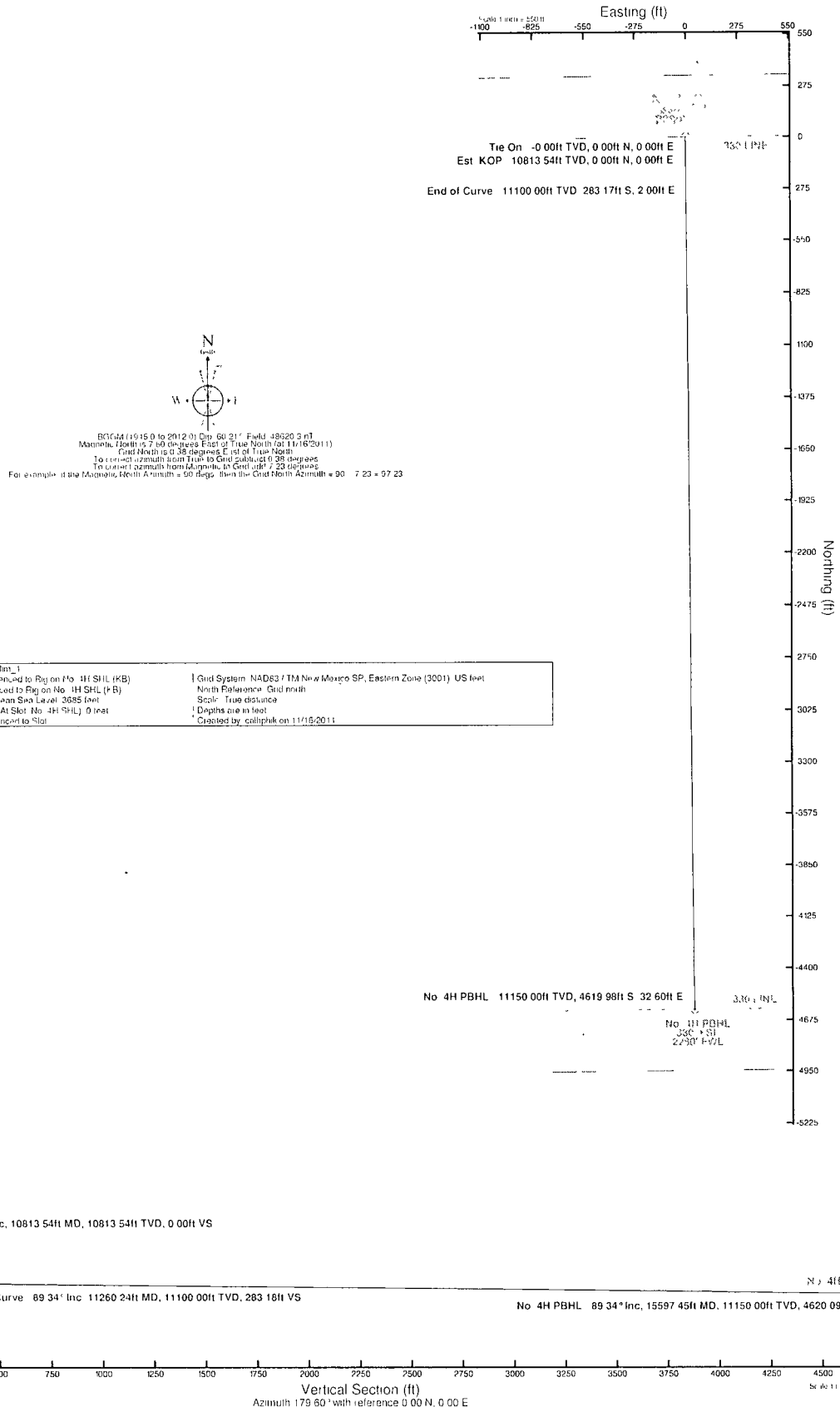
Location Lee County, TX
Field (Triste Draw) Sec 36, T23S, R32E
Facility Triste Draw 36 State

Slot No. 4H SHL
Well No. 4H
Wellbore No. 4H 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	179 596	0 00	0 00	0 00	0 00	0 00
Est KOP	10813 54	0 000	179 596	10813 54	0 00	0 00	0 00	0 00
End of Curve	11260 24	89 339	179 596	11100 00	-263 17	2 00	20 00	283 18
No 4H PBHL	15597 45	89 339	179 596	11150 00	-4619 98	32 60	0 00	4620 09





Planned Wellpath Report

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Operator	Cimarex Energy Co.	Slot	No. 4H SHL
Area	Lee County, TX	Well	No. 4H
Field	(Triste Draw) Sec 36, T23S, R32E	Wellbore	No. 4H PWB
Facility	Triste Draw 36 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	0.999963	Report Generated	11/16/2011 at 10:04:06 AM
Convergence at slot	0.38° East	Database/Source file	WA_Midland/No. 4H_PWB.xml

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	19.40	1904.48	758890.80	461791.30	32°16'03.280"N	103°37'46.118"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

Calculation method	Minimum curvature	Rig on No. 4H SHL (KB) to GL	3685.00ft
Horizontal Reference Pt	Slot	Rig on No. 4H SHL (KB) to Mean Sea Level	3685.00ft
Vertical Reference Pt	Rig on No. 4H SHL (KB)	Rig on No. 4H SHL (KB) to Mud Line at Slot (No. 4H SHL)	3685.00ft
MD Reference Pt	Rig on No. 4H SHL (KB)	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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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 4H SHL
Area	Lee County, TX	Well	No. 4H
Field	(Triste Draw) Sec 36, T23S, R32E	Wellbore	No. 4H PWB
Facility	Triste Draw 36 State		

WELLPATH DATA (164 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	179.596	0.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	Tie On
100.00	0.000	179.596	100.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
200.00	0.000	179.596	200.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
300.00	0.000	179.596	300.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
400.00	0.000	179.596	400.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
500.00	0.000	179.596	500.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
600.00	0.000	179.596	600.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
700.00	0.000	179.596	700.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
800.00	0.000	179.596	800.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
900.00	0.000	179.596	900.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
1000.00	0.000	179.596	1000.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
1100.00	0.000	179.596	1100.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
1200.00	0.000	179.596	1200.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
1300.00	0.000	179.596	1300.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
1400.00	0.000	179.596	1400.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
1500.00	0.000	179.596	1500.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
1600.00	0.000	179.596	1600.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
1700.00	0.000	179.596	1700.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
1800.00	0.000	179.596	1800.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
1900.00	0.000	179.596	1900.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
2000.00	0.000	179.596	2000.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
2100.00	0.000	179.596	2100.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
2200.00	0.000	179.596	2200.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
2300.00	0.000	179.596	2300.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
2400.00	0.000	179.596	2400.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
2500.00	0.000	179.596	2500.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
2600.00	0.000	179.596	2600.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
2700.00	0.000	179.596	2700.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
2800.00	0.000	179.596	2800.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
2900.00	0.000	179.596	2900.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
3000.00	0.000	179.596	3000.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
3100.00	0.000	179.596	3100.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
3200.00	0.000	179.596	3200.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
3300.00	0.000	179.596	3300.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
3400.00	0.000	179.596	3400.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
3500.00	0.000	179.596	3500.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
3600.00	0.000	179.596	3600.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
3700.00	0.000	179.596	3700.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
3800.00	0.000	179.596	3800.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
3900.00	0.000	179.596	3900.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
4000.00	0.000	179.596	4000.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
4100.00	0.000	179.596	4100.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
4200.00	0.000	179.596	4200.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
4300.00	0.000	179.596	4300.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
4400.00	0.000	179.596	4400.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	



Planned Wellpath Report

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**BAKER
HUGHES**

Operator	Cimarex Energy Co.	Slot	No. 4H SHL
Area	Lee County, TX	Well	No. 4H
Field	(Triste Draw) Sec 36, T23S, R32E	Wellbore	No. 4H PWB
Facility	Triste Draw 36 State		

WELLPATH DATA (164 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	179.596	4500.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
4600.00	0.000	179.596	4600.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
4700.00	0.000	179.596	4700.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
4800.00	0.000	179.596	4800.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
4900.00	0.000	179.596	4900.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
5000.00	0.000	179.596	5000.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
5020.00	0.000	179.596	5020.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	Delaware Sands
5100.00	0.000	179.596	5100.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
5200.00	0.000	179.596	5200.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
5300.00	0.000	179.596	5300.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
5400.00	0.000	179.596	5400.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
5500.00	0.000	179.596	5500.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
5600.00	0.000	179.596	5600.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
5700.00	0.000	179.596	5700.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
5800.00	0.000	179.596	5800.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
5900.00	0.000	179.596	5900.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
6000.00	0.000	179.596	6000.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
6100.00	0.000	179.596	6100.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
6200.00	0.000	179.596	6200.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
6300.00	0.000	179.596	6300.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
6400.00	0.000	179.596	6400.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
6500.00	0.000	179.596	6500.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
6600.00	0.000	179.596	6600.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
6700.00	0.000	179.596	6700.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
6800.00	0.000	179.596	6800.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
6900.00	0.000	179.596	6900.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
7000.00	0.000	179.596	7000.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
7100.00	0.000	179.596	7100.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
7200.00	0.000	179.596	7200.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
7300.00	0.000	179.596	7300.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
7400.00	0.000	179.596	7400.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
7500.00	0.000	179.596	7500.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
7600.00	0.000	179.596	7600.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
7700.00	0.000	179.596	7700.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
7800.00	0.000	179.596	7800.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
7900.00	0.000	179.596	7900.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
8000.00	0.000	179.596	8000.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
8100.00	0.000	179.596	8100.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
8200.00	0.000	179.596	8200.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
8300.00	0.000	179.596	8300.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
8400.00	0.000	179.596	8400.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
8500.00	0.000	179.596	8500.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
8600.00	0.000	179.596	8600.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
8625.00	0.000	179.596	8625.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	Basal Brushy Canyon
8700.00	0.000	179.596	8700.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	



Planned Wellpath Report

Prelim_1
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Operator	Cimarex Energy Co.	Slot	No. 4H SHL
Area	Lee County, TX	Well	No. 4H
Field	(Triste Draw) Sec 36, T23S, R32E	Wellbore	No. 4H PWB
Facility	Triste Draw 36 State		

WELLPATH DATA (164 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
8800.00	0.000	179.596	8800.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
8850.00	0.000	179.596	8850.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	Bone Spring
8900.00	0.000	179.596	8900.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
9000.00	0.000	179.596	9000.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
9100.00	0.000	179.596	9100.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
9200.00	0.000	179.596	9200.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
9300.00	0.000	179.596	9300.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	Avalon Shale
9400.00	0.000	179.596	9400.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
9500.00	0.000	179.596	9500.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
9600.00	0.000	179.596	9600.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
9700.00	0.000	179.596	9700.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
9800.00	0.000	179.596	9800.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
9900.00	0.000	179.596	9900.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
10000.00	0.000	179.596	10000.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
10050.00	0.000	179.596	10050.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	1st Bone Spring Shale
10100.00	0.000	179.596	10100.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
10200.00	0.000	179.596	10200.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
10300.00	0.000	179.596	10300.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
10400.00	0.000	179.596	10400.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
10500.00	0.000	179.596	10500.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
10600.00	0.000	179.596	10600.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
10675.00	0.000	179.596	10675.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	2nd Bone Spring Shale
10700.00	0.000	179.596	10700.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
10800.00	0.000	179.596	10800.00	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	
10813.54	0.000	179.596	10813.54	0.00	0.00	0.00	758890.80	461791.30	32°16'03.280"N	103°37'46.118"W	0.00	Est KOB
10900.00	17.292	179.596	10898.69	12.95	-12.95	0.09	758890.89	461778.35	32°16'03.152"N	103°37'46.118"W	20.00	
11000.00	37.292	179.596	10987.11	58.57	-58.57	0.41	758891.21	461732.74	32°16'02.701"N	103°37'46.118"W	20.00	
11100.00	57.292	179.596	11054.59	131.68	-131.67	0.93	758891.73	461659.63	32°16'01.977"N	103°37'46.118"W	20.00	
11200.00	77.292	179.596	11093.00	223.46	-223.45	1.58	758892.38	461567.86	32°16'01.069"N	103°37'46.117"W	20.00	
11260.24	89.339	179.596	11100.00	283.18	-283.17	2.00	758892.80	461508.14	32°16'00.478"N	103°37'46.117"W	20.00	End of Curve
11300.00	89.340	179.596	11100.46	322.93	-322.93	2.28	758893.08	461468.39	32°16'00.085"N	103°37'46.117"W	0.00	
11400.00	89.339	179.596	11101.61	422.93	-422.92	2.98	758893.78	461368.40	32°15'59.095"N	103°37'46.116"W	0.00	
11500.00	89.340	179.596	11102.77	522.92	-522.91	3.69	758894.49	461268.41	32°15'58.106"N	103°37'46.115"W	0.00	
11600.00	89.340	179.596	11103.92	622.91	-622.90	4.40	758895.20	461168.43	32°15'57.117"N	103°37'46.115"W	0.00	
11700.00	89.340	179.596	11105.07	722.94	-722.89	5.10	758895.90	461068.44	32°15'56.127"N	103°37'46.114"W	0.00	
11800.00	89.340	179.596	11106.22	822.90	-822.88	5.81	758896.61	460968.45	32°15'55.138"N	103°37'46.114"W	0.00	
11900.00	89.339	179.596	11107.38	922.89	-922.87	6.51	758897.31	460868.46	32°15'54.148"N	103°37'46.113"W	0.00	
12000.00	89.340	179.596	11108.53	1022.89	-1022.86	7.22	758898.02	460768.48	32°15'53.159"N	103°37'46.113"W	0.00	
12100.00	89.340	179.596	11109.68	1122.88	-1122.85	7.92	758898.72	460668.49	32°15'52.169"N	103°37'46.112"W	0.00	
12200.00	89.340	179.596	11110.84	1222.87	-1222.84	8.63	758899.43	460568.50	32°15'51.180"N	103°37'46.111"W	0.00	
12300.00	89.340	179.596	11111.99	1322.87	-1322.83	9.33	758900.13	460468.52	32°15'50.190"N	103°37'46.111"W	0.00	
12400.00	89.339	179.596	11113.14	1422.86	-1422.83	10.04	758900.84	460368.53	32°15'49.201"N	103°37'46.110"W	0.00	
12500.00	89.340	179.596	11114.29	1522.85	-1522.82	10.75	758901.55	460268.54	32°15'48.212"N	103°37'46.110"W	0.00	
12600.00	89.340	179.596	11115.45	1622.85	-1622.81	11.45	758902.25	460168.56	32°15'47.222"N	103°37'46.109"W	0.00	
12700.00	89.340	179.596	11116.60	1722.84	-1722.80	12.16	758902.96	460068.57	32°15'46.233"N	103°37'46.109"W	0.00	



Planned Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 4H SHL
Area	Lee County, TX	Well	No. 4H
Field	(Triste Draw) Sec 36, T23S, R32E	Wellbore	No. 4H PWB
Facility	Triste Draw 36 State		

WELLPATH DATA (164 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
12800.00	89.340	179.596	11117.75	1822.83	-1822.79	12.86	758903.66	459968.58	32°15'45.243"N	103°37'46.108"W	0.00	
12900.00	89.339	179.596	11118.90	1922.83	-1922.78	13.57	758904.37	459868.59	32°15'44.254"N	103°37'46.107"W	0.00	
13000.00	89.340	179.596	11120.06	2022.82	-2022.77	14.27	758905.07	459768.61	32°15'43.264"N	103°37'46.107"W	0.00	
13100.00	89.340	179.596	11121.21	2122.81	-2122.76	14.98	758905.78	459668.62	32°15'42.275"N	103°37'46.106"W	0.00	
13200.00	89.340	179.596	11122.36	2222.81	-2222.75	15.69	758906.48	459568.63	32°15'41.285"N	103°37'46.106"W	0.00	
13300.00	89.340	179.596	11123.52	2322.80	-2322.74	16.39	758907.19	459468.65	32°15'40.296"N	103°37'46.105"W	0.00	
13400.00	89.339	179.596	11124.67	2422.79	-2422.73	17.10	758907.90	459368.66	32°15'39.307"N	103°37'46.104"W	0.00	
13500.00	89.340	179.596	11125.82	2522.79	-2522.72	17.80	758908.60	459268.67	32°15'38.317"N	103°37'46.104"W	0.00	
13600.00	89.340	179.596	11126.97	2622.78	-2622.72	18.51	758909.31	459168.69	32°15'37.328"N	103°37'46.103"W	0.00	
13700.00	89.339	179.596	11128.13	2722.77	-2722.71	19.21	758910.01	459068.70	32°15'36.338"N	103°37'46.103"W	0.00	
13800.00	89.340	179.596	11129.28	2822.77	-2822.70	19.92	758910.72	458968.71	32°15'35.349"N	103°37'46.102"W	0.00	
13900.00	89.340	179.596	11130.43	2922.76	-2922.69	20.62	758911.42	458868.72	32°15'34.359"N	103°37'46.102"W	0.00	
14000.00	89.340	179.596	11131.59	3022.75	-3022.68	21.33	758912.13	458768.74	32°15'33.370"N	103°37'46.101"W	0.00	
14100.00	89.340	179.596	11132.74	3122.75	-3122.67	22.04	758912.83	458668.75	32°15'32.380"N	103°37'46.100"W	0.00	
14200.00	89.339	179.596	11133.89	3222.74	-3222.66	22.74	758913.54	458568.76	32°15'31.391"N	103°37'46.100"W	0.00	
14300.00	89.340	179.596	11135.04	3322.73	-3322.65	23.45	758914.25	458468.78	32°15'30.402"N	103°37'46.099"W	0.00	
14400.00	89.340	179.596	11136.20	3422.73	-3422.64	24.15	758914.95	458368.79	32°15'29.412"N	103°37'46.099"W	0.00	
14500.00	89.340	179.596	11137.35	3522.72	-3522.63	24.86	758915.66	458268.80	32°15'28.423"N	103°37'46.098"W	0.00	
14600.00	89.340	179.596	11138.50	3622.71	-3622.62	25.56	758916.36	458168.82	32°15'27.433"N	103°37'46.097"W	0.00	
14700.00	89.339	179.596	11139.65	3722.71	-3722.62	26.27	758917.07	458068.83	32°15'26.444"N	103°37'46.097"W	0.00	
14800.00	89.340	179.596	11140.81	3822.70	-3822.61	26.97	758917.77	457968.84	32°15'25.454"N	103°37'46.096"W	0.00	
14900.00	89.340	179.596	11141.96	3922.69	-3922.60	27.68	758918.48	457868.85	32°15'24.465"N	103°37'46.096"W	0.00	
15000.00	89.340	179.596	11143.11	4022.69	-4022.59	28.39	758919.18	457768.87	32°15'23.475"N	103°37'46.095"W	0.00	
15100.00	89.340	179.596	11144.27	4122.68	-4122.58	29.09	758919.89	457668.88	32°15'22.486"N	103°37'46.095"W	0.00	
15200.00	89.339	179.596	11145.42	4222.67	-4222.57	29.80	758920.60	457568.89	32°15'21.497"N	103°37'46.094"W	0.00	
15300.00	89.340	179.596	11146.57	4322.67	-4322.56	30.50	758921.30	457468.91	32°15'20.507"N	103°37'46.093"W	0.00	
15400.00	89.340	179.596	11147.72	4422.66	-4422.55	31.21	758922.01	457368.92	32°15'19.518"N	103°37'46.093"W	0.00	
15500.00	89.340	179.596	11148.88	4522.65	-4522.54	31.91	758922.71	457268.93	32°15'18.528"N	103°37'46.092"W	0.00	
15597.45	89.339	179.596	11150.00	4620.09	-4619.98	32.60	758923.40	457171.50	32°15'17.564"N	103°37'46.092"W	0.00	No 4H PBHL

HOLE & CASING SECTIONS - Ref Wellbore: No. 4H 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]
12m Open Hole	0.00	4900.00	4900.00	0.00	4900.00	0.00	0.00	0.00	0.00
9 625m Casing	0.00	4900.00	4900.00	0.00	4900.00	0.00	0.00	0.00	0.00
6.75m Open Hole	4900.00	15597.45	10697.45	4900.00	NA	0.00	0.00	NA	NA
5 5m Casing	0.00	15597.45	15597.45	0.00	NA	0.00	0.00	NA	NA



Planned Wellpath Report

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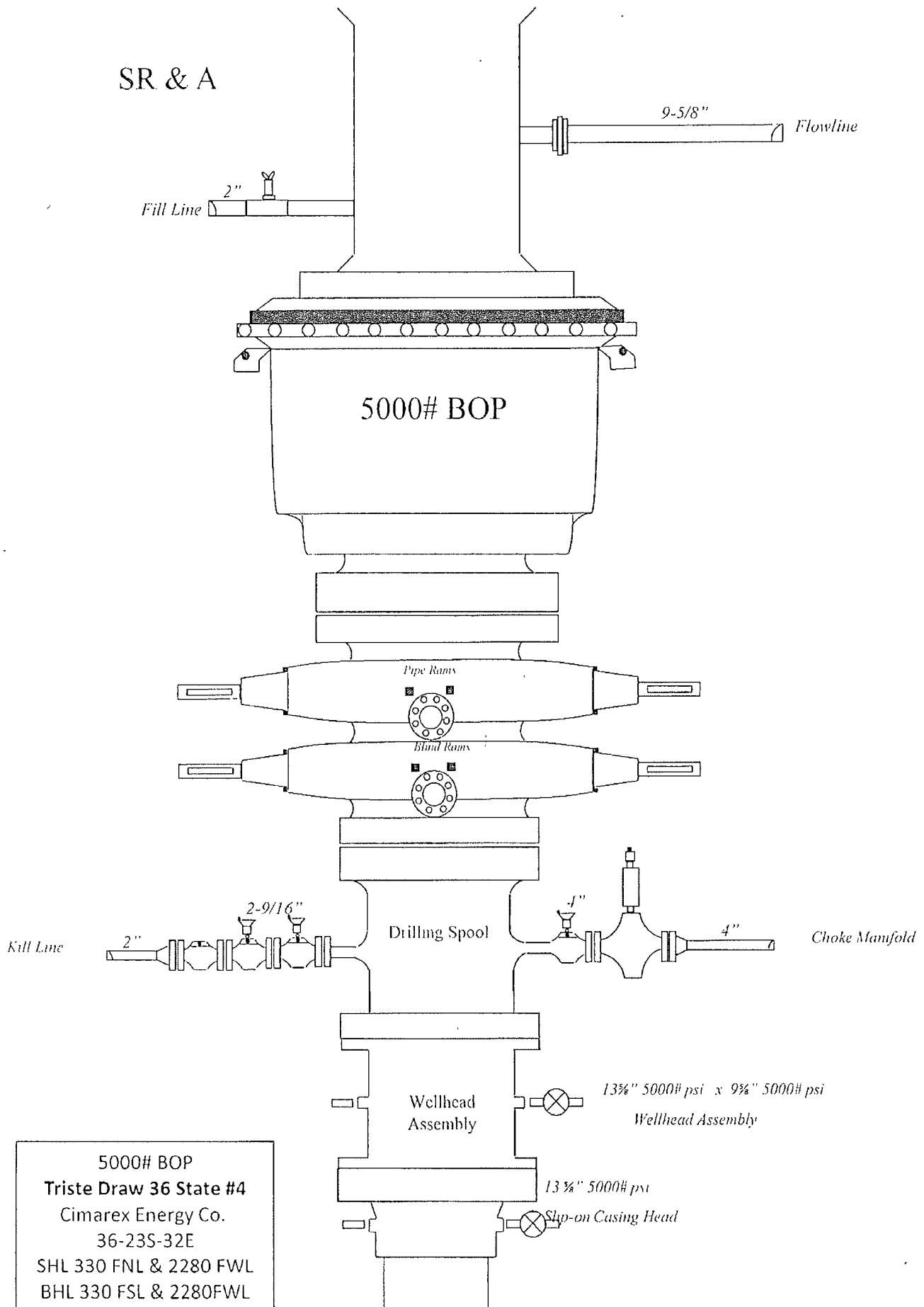


WELL PATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 4H SHL
Area	Lee County, TX	Well	No. 4H
Field	(Triste Draw) Sec 36, T23S, R32E	Wellbore	No. 4H PWB
Facility	Triste Draw 36 State		

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No. 4H PBHL	15597.45	11150.00	-4619.98	32.60	758923.40	457171.50	32°15'17.564"N	103°37'46.092"W	point

SURVEY PROGRAM - Ref Wellbore: No. 4H PWB Ref Wellpath: Prelim_1				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
3685.00	15597.45	NaviTrak (Standard)		No. 4H PWB

SR & A



5000# BOP
Triste Draw 36 State #4
Cimarex Energy Co.
36-23S-32E
SHL 330 FNL & 2280 FWL
BHL 330 FSL & 2280FWL
Lea County, NM

Drilling Operations
Choke Manifold
5M Service

Choke Manifold Diagram
Triste Draw 36 State #4
Cimarex Energy Co.
36-23S-32E
SHL 330 FNL & 2280 FWL
BHL 330 FSL & 2280FWL
Lea County, NM

